

VINCI TERNA CONSTRUCTION JV DOO BELGRADE
Gospodar Jovanova 5
11000 Belgrade

LABORATORY ANALYSIS REPORT

Belgrade, March 2019

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General information about the authorized professional organization that performs measurements

Name	ZAŠTITA NA RADU I ZAŠTITA ŽIVOTNE SREDINE „BEOGRAD“ DOO
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E-mail	g.jovanovic@zastitabeograd.com

General information about user

Name	Vinci Terna Construction JV doo Belgrade
Head office	11000 Belgrade
Addres	Gospodar Jovanova 5
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Description of macro and micro-location for the position of sampling

Macro - location

The airport "Nikola Tesla" is located 18 km west of the center of Belgrade, at Aerodrom 59, 11180 Belgrade.



Image 1. Macro-location



Micro - location

Samples were taken from the measuring points shown in Image 2



Image 2. Micro - location



Data for the position of sampling points

Sampling point: BOR 1

Coordinates: N 44° 48' 19.3"
E 20° 18' 39.5"

Depth: 0 - 0,3 m
(ID number 1903063001)



Sampling point: BOR 2

Coordinates: N 44° 48' 25.7"
E 20° 18' 31.4"

Depth: 0 – 0,3 m
(ID number 1903063002)



Sampling point: BOR 3

Coordinates: N 44° 48' 27.7"
E 20° 18' 45.2"

Depth: 0 – 0,3 m
(ID number 1903063003)



Sampling point: BOR 4

Coordinates: N 44° 48' 32.5"
E 20° 18' 52.5"

Depth: 0 – 0,3 m
(ID number 1903063004)



Sampling point: BOR 5

Coordinates: N 44° 48' 35.1"
E 20° 18' 46.7"

Depth: 0 – 0,3 m
(ID number 1903063005)



Sampling point: BOR 6

Coordinates: N 44° 48' 36.2"
E 20° 18' 54.5"

Depth: 0 – 0,3 m
(ID number 1903063006)



Sampling point: BOR 7

Coordinates: N 44° 48' 36.8"
E 20° 18' 56.1"

Depth: 0 – 0,3 m
(ID number 1903063007)



Sampling point: BOR 8

Coordinates: N 44° 48' 36.0"
E 20° 18' 55.9"

Depth: 0 – 0,3 m
(ID number 1903063008)



Sampling point: BOR 9

Coordinates: N 44° 48' 36.0"
E 20° 18' 56.9"

Depth: 0 – 0,3 m
(ID number 1903063009)



Sampling point: BOR 10

Coordinates: N 44° 48' 34.9"
E 20° 18' 56.9"

Depth: 0 – 0,3 m
(ID number 1903063010)



Sampling point: BOR 11

Coordinates: N 44° 48' 34.5"
E 20° 18' 58.4"

Depth: 0 – 0,3 m
(ID number 1903063011)



Sampling point: BOR 12

Coordinates: N 44° 48' 33.3"
E 20° 18' 58.4"

Depth: 0 – 0,3 m
(ID number 1903063012)



Sampling point: BOR 13

Coordinates: N 44° 48' 34.2"
E 20° 19' 08.4"

Depth: 0 – 0,3 m
(ID number 1903063013)



Sampling point: BOR 14

Coordinates: N 44° 48' 35.5"
E 20° 19' 01.0"

Depth: 0 – 0,3 m
(ID number 1903063014)



Sampling point: BOR 15

Coordinates: N 44° 48' 38.6"
E 20° 18' 58.5"

Depth: 0 – 0,3 m
(ID number 1903063015)



Sampling point:

BOR 16

Coordinates:

N 44° 48' 39.1"
E 20° 18' 56.7"

Depth:

0 – 0,3 m
(ID number 1903063016)



Sampling point:

BOR 17

Coordinates:

N 44° 48' 39.6"
E 20° 18' 56.8"

Depth:

0 – 0,3 m
(ID number 1903063017)



Sampling point:

BOR 18

Coordinates:

N 44° 48' 39.8"
E 20° 18' 57.6"

Depth:

0 – 0,3 m
(ID number 1903063018)



Sampling point:

BOR 19

Coordinates:

N 44° 48' 39.0"
E 20° 19' 00.3"

Depth:

0 – 0,3 m
(ID number 1903063019)



Sampling point:

BOR 20

Coordinates:

N 44° 48' 37.7"
E 20° 19' 01.7"

Depth:

0 – 0,3 m
(ID number 1903063020)



Sampling point::

BOR 21

Coordinates:

N 44° 48' 37.9"
E 20° 19' 04.2"

Depth:

0 – 0,3 m
(ID number 1903063021)



Basis for testing the quality of soil and time of sampling

Basis for testing the quality of soil

Basis for testing the quality of soil is *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs (Sl. Gl. RS br. 88/2010), Appendix 3 and Regulation on Limit Values of Polluting, Harmful and Dangerous Substances in Land (Official Gazette of RS. No. 30/2018), Annex 1. Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil.*

Time of sampling: 06.03.2019.



Conclusion

Border minimum values are those values which have been fully achieved functional properties of the soil, and they indicate the level at which it reached a sustainable soil quality.

Remediation values are values that indicate that the basic functions of land endangered or severely impaired and require remediation, rehabilitation and other measures.

Based on the results acquired by analyzing the soil samples taken in accordance with the determined program, on March 06, 2019, with 21 (twenty-one) holes depths 0,0-0,3 m the following is concluded:

Sampling point: BOR 1

In the sample studied area with the identification number 1903063001 analyzed parameters that exceed the limits prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl. Gl. RS No. 88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl. Gl. RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil are concentration of nickel and concentration of cobalt.

In the sample studied area with the identification number 1903063001 analyzed parameters do not exceed the remediation values prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl. Gl. RS No. 88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl. Gl. RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil.

Sampling point: BOR 2

In the sample studied area with the identification number 1903063002 analyzed parameter that exceed the limits prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl. Gl. RS No. 88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl. Gl. RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil is concentration of nickel.

In the sample studied area with the identification number 1903063002 analyzed parameters do not exceed the remediation values prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl. Gl. RS No. 88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl. Gl. RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil.



Sampling point: BOR 3

In the sample studied area with the identification number 1903063003 analyzed parameter that exceed the limits prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil is concentration of nickel.

In the sample studied area with the identification number 1903063003 analyzed parameters do not exceed the remediation values prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil.

Sampling point: BOR 4

In the sample studied area with the identification number 1903063004 analyzed parameter that exceed the limits prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil is concentration of nickel.

In the sample studied area with the identification number 1903063004 analyzed parameters do not exceed the remediation values prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil.

Sampling point: BOR 5

In the sample studied area with the identification number 1903063005 analyzed parameter that exceed the limits prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil is concentration of nickel.

In the sample studied area with the identification number 1903063005 analyzed parameters do not exceed the remediation values prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil.



Sampling point: BOR 6

In the sample studied area with the identification number 1903063006 analyzed parameter that exceed the limits prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil is concentration of nickel.

In the sample studied area with the identification number 1903063006 analyzed parameters do not exceed the remediation values prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil.

Sampling point: BOR 7

In the sample studied area with the identification number 1903063007 analyzed parameter that exceed the limits prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil is concentration of nickel.

In the sample studied area with the identification number 1903063007 analyzed parameters do not exceed the remediation values prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil.

Sampling point: BOR 8

In the sample studied area with the identification number 1903063008 analyzed parameter that exceed the limits prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil is concentration of nickel.

In the sample studied area with the identification number 1903063008 analyzed parameters do not exceed the remediation values prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil.



Sampling point: BOR 9

In the sample studied area with the identification number 1903063009 analyzed parameter that exceed the limits prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil is concentration of nickel.

In the sample studied area with the identification number 1903063009 analyzed parameters do not exceed the remediation values prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil.

Sampling point: BOR 10

In the sample studied area with the identification number 1903063010 analyzed parameter that exceed the limits prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil is concentration of nickel.

In the sample studied area with the identification number 1903063010 analyzed parameters do not exceed the remediation values prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil.

Sampling point: BOR 11

In the sample studied area with the identification number 1903063011 analyzed parameter that exceed the limits prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil is concentration of nickel.

In the sample studied area with the identification number 1903063011 analyzed parameters do not exceed the remediation values prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil.



Sampling point: BOR 12

In the sample studied area with the identification number 1903063012 analyzed parameter that exceed the limits prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil is concentration of nickel.

In the sample studied area with the identification number 1903063012 analyzed parameters do not exceed the remediation values prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil.

Sampling point: BOR 13

In the sample studied area with the identification number 1903063013 analyzed parameter that exceed the limits prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil is concentration of nickel.

In the sample studied area with the identification number 1903063013 analyzed parameters do not exceed the remediation values prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil.

Sampling point: BOR 14

In the sample studied area with the identification number 1903063014 analyzed parameter that exceed the limits prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil is concentration of nickel.

In the sample studied area with the identification number 1903063014 analyzed parameters do not exceed the remediation values prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil.



Sampling point: BOR 15

In the sample studied area with the identification number 1903063015 analyzed parameters that exceed the limits prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil are concentration of copper, concentration of nickel and concentration of cobalt.

In the sample studied area with the identification number 1903063015 analyzed parameters do not exceed the remediation values prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil.

Sampling point: BOR 16

In the sample studied area with the identification number 1903063016 analyzed parameters that exceed the limits prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil are concentration of copper and concentration of nickel.

In the sample studied area with the identification number 1903063016 analyzed parameters do not exceed the remediation values prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil.

Sampling point: BOR 17

In the sample studied area with the identification number 1903063017 analyzed parameter that exceed the limits prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil is concentration of nickel.

In the sample studied area with the identification number 1903063017 analyzed parameters do not exceed the remediation values prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil.



Sampling point: BOR 18

In the sample studied area with the identification number 1903063018 analyzed parameters that exceed the limits prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil are concentration of copper, concentration of nickel and concentration of cobalt.

In the sample studied area with the identification number 1903063018 analyzed parameters do not exceed the remediation values prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil.

Sampling point: BOR 19

In the sample studied area with the identification number 1903063019 analyzed parameters that exceed the limits prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil are concentration of chrome, concentration of copper, concentration of nickel and concentration of cobalt.

In the sample studied area with the identification number 1903063019 analyzed parameters do not exceed the remediation values prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil.

Sampling point: BOR 20

In the sample studied area with the identification number 1903063019 analyzed parameters that exceed the limits prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil are concentration of chrome, concentration of copper, concentration of nickel and concentration of cobalt.

In the sample studied area with the identification number 1903063020 analyzed parameters do not exceed the remediation values prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), Appendix 3 and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil.



Sampling point: BOR 21

In the sample studied area with the identification number 1903063021 analyzed parameters that exceed the limits prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), *Appendix 3* and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018), *Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil* are concentration of chrome, concentration of copper, concentration of nickel and concentration of cobalt.

In the sample studied area with the identification number 1903063021 analyzed parameters do not exceed the remediation values prescribed by the *Regulation on the program of systematic monitoring of soil quality, indicators of determining the risk of degradation of the soil and the methodology for the making of remediation programs* (Sl.Gl.RS No.88/2010), *Appendix 3* and the *Regulation on the limit values for polluting, harmful and dangerous substances in the land* (Sl.Gl.RS, No. 30/2018). *Annex 1, Limit maximum and remediation values of polluting, harmful and dangerous substances in the soil*.

Note: In all tested samples, the presence of dangerous and harmful substances above the remediation values has not been demonstrated, which means that the basic functions of the land are not disturbed and that it is not necessary to undertake remedial or sanitary measures.

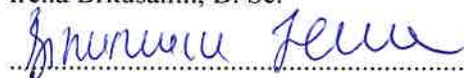
Appendix

- Laboratory analysis report number 24-0032-1/19-03
- The sampling plan
- Calibration certificates for the laboratory equipment



Analysts:

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LABORATORY ANALYSIS REPORT
No. 24-1-0032-1/19-03

Belgrade, March 2019

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Data on applied standards for the measurement, measurement procedures and types of measuring devices

Parameters	Standard	Equipment and instruments	Serial number of instrument
Sampling of land	ISO 10381-1:2002 ISO 10381-2:2002 ISO 10381-4:2003 ISO 10381-5:2005	Set GDR 300	-
Clay content	Manual ⁴⁾ – method 4.2	Mechanical stirrer – EINHEL BT – ID 1000E, hydrometer – PRECISION ASTM 152H	HR – 3361 087337
Organic matter content	Manual ⁴⁾ – method 5.4	-	-
Total organic carbon content (TOC)	Manual ⁴⁾ – method 5.4	-	-
pH value	SRPS ISO 10390:2007	InoLab3320, WTW	16111292
Content of dry matter and water	SRPS ISO 11464:2002	Analytical balance, Kern, Germany	WB0740126
Cadmium	VDM 26	Agilent Technologies (MP-AES)	AU12510345
Chrom	VDM 26	Agilent Technologies (MP-AES)	AU12510345
Copper	VDM 26	Agilent Technologies (MP- AES)	AU12510345
Nickel	VDM 26	Agilent Technologies (MP-AES)	AU12510345
Lead	VDM 26	Agilent Technologies (MP- AES)	AU12510345
Zinc	VDM 26	Agilent Technologies (MP-AES)	AU12510345
Arsenic	VDM 26	Agilent Technologies (MP-AES)	AU12510345



Mercury	VDM 26	Agilent Technologies (MP-AES)	AU12510345
Cobalt	VDM 26	Agilent Technologies (MP-AES)	AU12510345
Molybdenum	VDM 26	Agilent Technologies (MP-AES)	AU12510345
Aromatic organic compounds	EPA 8270D EPA 3550C	Agilent GC/MSD/ECD 7890A/5975C	CN10849142, US83111386
Polycyclic aromatic hydrocarbons (PAH)	EPA 8270 D EPA 3550C	Agilent GC/MSD/ECD 7890A/5975C	CN10849142, US83111386
Polychlorinated biphenyls (PCB)	EPA 8082 EPA 3550C	Agilent GC/MSD/ECD 7890A/5975C	CN10849142, US83111386
Organochlorine pesticides	EPA 8270D EPA 3550C	Agilent GC/MSD/ECD 7890A/5975C	CN10849142, US83111386
Mineral oils	VDM 34	Agilent GC/MSD/ECD 7890A/5975C	CN10849142, US83111386

Manual ⁴⁾ – Soil and Planet Analysis Laboratory Manual, second edition, International Center for Agricultural Research in the Dry Areas, Aleppo, Syria, National Agricultural Research Center, Islamabad, Pakistan

VDM 26 – Application Note – Determination of metals in soils using the 4100 MP – AES, Agilent Technologies, Melbourne, Australia; preparation for Hg – EPA 3051 – Microwave assisted acid digestion of sediments, sludges, soils and oils, preparation for As – EPA 3050B – Acid digestion of sediments, sludges and soils; SRPS ISO 11466:2004, acid digestion

VDM 34 – SRPS ISO /TR 11046:2005(modified method)



Results

Sampling point: BOR 1

ID number: 1903063001 (Depth 0 - 30 cm)

Parameter	Unit of measurement	The measured value	Limit value	Remediation value
Clay content	%	19,98	-	-
Organic matter content	%	2,28	-	-
TOC	%	1,32	-	-
PH in H ₂ O		8,1	-	-
Dry matter content	%	97,5	-	-
Water content	%	2,5	-	-
Cadmium (Cd)	mg/kg	< 0,4	0,6	9,0
Chrom (Cr)	mg/kg	81,8	90,0	341,8
Copper (Cu)	mg/kg	25,2	28,4	149,7
Nickel (Ni)	mg/kg	51,9	30,0	179,9
Lead (Pb)	mg/kg	40,0	72,3	450,6
Cobalt (Co)	mg/kg	8,4	7,6	202,5
Molybdenum (Mo)	mg/kg	< 1	3	200
Zinc (Zn)	mg/kg	73,0	113,4	583,0
Mercury (Hg)	mg/kg	<0,1	0,3	9,0
Arsenic (As)	mg/kg	11,1	23,9	45,3
Aromatic organic compounds				
Benzene	mg/kg	< 0,001	0,002	0,2
Ethylbenzene	mg/kg	< 0,001	0,007	11,4
Toluene	mg/kg	< 0,001	0,002	29,6
Xylene	mg/kg	< 0,001	0,02	5,7
Styrene	mg/kg	< 0,001	0,07	22,8
Polycyclic aromatic hydrocarbons (PAH) - total ¹	mg/kg	<0,02	1	40
Polychlorinated biphenyls (PCB) - total ²	mg/kg	< 0,004 *	0,004	0,2
Pesticides				
DDT	mg/kg	< 0,002 *	0,002	0,9
DDD	mg/kg	< 0,002 *	0,002	0,9
DDE	mg/kg	< 0,002 *	0,002	0,9
Drini ³	mg/kg	< 0,001 *	0,001	0,9
Aldrin	mg/kg	< 1×10 ⁻⁵ *	1,4×10 ⁻⁵	-
Dieldrin	mg/kg	< 0,0001 *	0,0001	-
Endrin	mg/kg	< 1×10 ⁻⁶ *	9×10 ⁻⁶	-
HCH – compounds ⁴	mg/kg	<0,003	0,002	0,4
α -HCH	mg/kg	< 0,0006 *	0,0007	-
β -HCH	mg/kg	< 0,002 *	0,002	-



γ -HCH	mg/kg	$< 1 \times 10^{-5} *$	1×10^{-5}	-
δ -HCH	mg/kg	$< 0,003$	-	-
Heptachlor	mg/kg	$< 0,0001$	0,0002	0,9
Heptachlor epoxide	mg/kg	$< 1 \times 10^{-8} *$	4×10^{-8}	0,9
Chlordane	mg/kg	$< 1 \times 10^{-6} *$	7×10^{-6}	0,9
Endosulfan	mg/kg	$< 1 \times 10^{-6} *$	2×10^{-6}	0,9
Mineral oils	mg/kg	< 10	11,40	1140

*- value under the scope of accredited methods

¹ The sum of ten polycyclic aromatic hydrocarbons: naphthalene, anthracene, phenanthrene, fluoranthene, benzo (a) anthracene, chrysene, benzo (a) pyrene, benzo (g, h, i) perylene, benzo (k) fluoranthene, indeno (1,2, 3-cd) pyrene.

²In case of remediation values taken suspicion of polychlorinated biphenyls congeners: PCB 28,52,101,118,138,153 and 180: in case of limit values taking the sum of the same congeners except PCB118

³ Under the "Drina" means the sum of aldrin, dieldrin and endrin.

⁴ Under HCH (hexachlorocyclohexane) means the sum of α HCH, β HCH, γ HCH and δ HCH



Results

Sampling point: BOR 2

ID number: 1903063002 (Depth 0 - 30 cm)

Parameter	Unit of measurement	The measured value	Limit value	Remediation value
Clay content	%	24,98	-	-
Organic matter content	%	2,78	-	-
TOC	%	1,61	-	-
PH in H ₂ O		8,0	-	-
Dry matter content	%	97,3	-	-
Water content	%	2,7	-	-
Cadmium (Cd)	mg/kg	< 0,4	0,6	9,7
Chrom (Cr)	mg/kg	82,6	100,0	379,8
Copper (Cu)	mg/kg	27,2	31,7	167,1
Nickel (Ni)	mg/kg	49,8	35,0	209,9
Lead (Pb)	mg/kg	39,1	77,8	484,9
Cobalt (Co)	mg/kg	8,2	9,0	239,8
Molybdenum (Mo)	mg/kg	< 1	3	200
Zinc (Zn)	mg/kg	72,9	129,1	664,0
Mercury (Hg)	mg/kg	<0,1	0,3	9,6
Arsenic (As)	mg/kg	9,4	26,1	49,5
Aromatic organic compounds				
Benzene	mg/kg	< 0,001	0,003	0,3
Ethylbenzene	mg/kg	< 0,001	0,008	13,9
Toluene	mg/kg	< 0,001	0,003	36,1
Xylene	mg/kg	< 0,001	0,03	6,9
Styrene	mg/kg	< 0,001	0,08	27,8
Polycyclic aromatic hydrocarbons (PAH) - total ¹	mg/kg	< 0,02	1	40
Polychlorinated biphenyls (PCB) - total ²	mg/kg	< 0,004 *	0,005	0,3
Pesticides				
DDT	mg/kg	< 0,002 *	0,003	1,1
DDD	mg/kg	< 0,002 *	0,003	1,1
DDE	mg/kg	< 0,002 *	0,003	1,1
Drini ³	mg/kg	< 0,001 *	0,001	1,1
Aldrin	mg/kg	< 1×10 ⁻⁵ *	1,7×10 ⁻⁵	-
Dieldrin	mg/kg	< 0,0001 *	0,0001	-
Endrin	mg/kg	< 1×10 ⁻⁶ *	1,1×10 ⁻⁵	-
HCH – compounds ⁴	mg/kg	<0,003	0,03	0,5
α -HCH	mg/kg	< 0,0006 *	0,0008	-
β -HCH	mg/kg	< 0,002 *	0,002	-
γ -HCH	mg/kg	< 1×10 ⁻⁵ *	1×10 ⁻⁵	-



δ -HCH	mg/kg	< 0,003	-	-
Heptachlor	mg/kg	< 0,0001	0,0002	1,1
Heptachlor epoxide	mg/kg	< 1×10^{-8} *	5×10^{-8}	1,1
Chlordane	mg/kg	< 1×10^{-6} *	8×10^{-6}	1,1
Endosulfan	mg/kg	< 1×10^{-6} *	3×10^{-6}	1,1
Mineral oils	mg/kg	<10	13,90	1390

*- value under the scope of accredited methods

¹ The sum of ten polycyclic aromatic hydrocarbons: naphthalene, anthracene, phenanthrene, fluoranthene, benzo (a) anthracene, chrysene, benzo (a) pyrene, benzo (g, h, i) perylene, benzo (k) fluoranthene, indeno (1,2, 3-cd) pyrene.

²In case of remediation values taken suspicion of polychlorinated biphenyls congeners: PCB 28,52,101,118,138,153 and 180; in case of limit values taking the sum of the same congeners except PCB118

³ Under the "Drina" means the sum of aldrin, dieldrin and endrin.

⁴ Under HCH (hexachloreyclohexane) means the sum of αHCH, βHCH, γHCH and δHCH

Results

Sampling point: BOR 3

ID number: 1903063003 (Depth 0 - 30 cm)

Parameter	Unit of measurement	The measured value	Limit value	Remediation value
Clay content	%	22,48	-	-
Organic matter content	%	2,46	-	-
TOC	%	1,43	-	-
PH in H ₂ O		7,9	-	-
Dry matter content	%	97,4	-	-
Water content	%	2,6	-	-
Cadmium (Cd)	mg/kg	< 0,4	0,6	9,3
Chrom (Cr)	mg/kg	69,9	95,0	360,8
Copper (Cu)	mg/kg	25,2	30,0	158,1
Nickel (Ni)	mg/kg	46,5	32,5	194,9
Lead (Pb)	mg/kg	32,0	74,9	467,3
Cobalt (Co)	mg/kg	7,8	8,3	221,2
Molybdenum (Mo)	mg/kg	< 1	3	200
Zinc (Zn)	mg/kg	64,9	121,1	623,0
Mercury (Hg)	mg/kg	<0,1	0,3	9,3
Arsenic (As)	mg/kg	9,5	25,0	47,4
Aromatic organic compounds				
Benzene	mg/kg	< 0,001	0,002	0,2
Ethylbenzene	mg/kg	< 0,001	0,007	12,3
Toluene	mg/kg	< 0,001	0,002	32,0
Xylene	mg/kg	< 0,001	0,02	6,1
Styrene	mg/kg	< 0,001	0,07	24,6
Polycyclic aromatic hydrocarbons (PAH) - total ¹	mg/kg	<0,02	1	40
Polychlorinated biphenyls (PCB) - total ²	mg/kg	< 0,004 *	0,005	0,2



Pesticides				
DDT	mg/kg	< 0,002 *	0,002	1,0
DDD	mg/kg	< 0,002 *	0,002	1,0
DDE	mg/kg	< 0,002 *	0,002	1,0
Drini ³	mg/kg	< 0,001 *	0,001	1,0
Aldrin	mg/kg	< 1×10 ⁻⁵ *	1,5×10 ⁻⁵	-
Dieldrin	mg/kg	< 0,0001 *	0,0001	-
Endrin	mg/kg	< 1×10 ⁻⁶ *	9,8×10 ⁻⁶	-
HCH – compounds ⁴	mg/kg	<0,003	0,02	0,5
α -HCH	mg/kg	< 0,0006 *	0,0007	-
β -HCH	mg/kg	< 0,002 *	0,002	-
γ -HCH	mg/kg	< 1×10 ⁻⁵ *	1×10 ⁻⁵	-
δ -HCH	mg/kg	< 0,003	-	-
Heptachlor	mg/kg	< 0,0001	0,0002	1,0
Heptachlor epoxide	mg/kg	< 1×10 ⁻⁸ *	5 ×10 ⁻⁸	1,0
Chlordane	mg/kg	< 1×10 ⁻⁶ *	7 ×10 ⁻⁶	1,0
Endosulfan	mg/kg	< 1×10 ⁻⁶ *	2×10 ⁻⁶	1,0
Mineral oils	mg/kg	<10	12,30	1230

*- value under the scope of accredited methods

¹ The sum of ten polycyclic aromatic hydrocarbons: naphthalene, anthracene, phenanthrene, fluoranthene, benzo (a) anthracene, chrysene, benzo (a) pyrene, benzo (g, h, i) perylene, benzo (k) fluoranthene, indeno (1,2, 3-cd) pyrene.

²In case of remediation values taken suspicion of polychlorinated biphenyls congeners: PCB 28,52,101,118,138,153 and 180: in case of limit values taking the sum of the same congeners except PCB118

³ Under the "Drina" means the sum of aldrin, dieldrin and endrin.

⁴ Under HCH (hexachloreyclohexane) means the sum of αHCH, βHCH, γHCH and δHCH



Results

Sampling point: **BOR 4**

ID number: **1903063004** (Depth 0 - 30 cm)

Parameter	Unit of measurement	The measured value	Limit value	Remediation value
Clay content	%	24,91	-	-
Organic matter content	%	2,51	-	-
TOC	%	1,46	-	-
PH in H ₂ O		8,1	-	-
Dry matter content	%	97,4	-	-
Water content	%	2,6	-	-
Cadmium (Cd)	mg/kg	< 0,4	0,6	9,6
Chrom (Cr)	mg/kg	74,4	99,8	379,3
Copper (Cu)	mg/kg	27,4	31,5	166,0
Nickel (Ni)	mg/kg	50,7	34,9	209,5
Lead (Pb)	mg/kg	36,9	77,4	482,7
Cobalt (Co)	mg/kg	7,9	9,0	239,3
Molybdenum (Mo)	mg/kg	< 1	3	200
Zinc (Zn)	mg/kg	72,0	128,5	660,8
Mercury (Hg)	mg/kg	< 0,1	0,3	9,6
Arsenic (As)	mg/kg	9,2	26,0	49,2
Aromatic organic compounds				
Benzene	mg/kg	< 0,001	0,002	0,2
Ethylbenzene	mg/kg	< 0,001	0,007	12,5
Toluene	mg/kg	< 0,001	0,002	32,6
Xylene	mg/kg	< 0,001	0,02	6,3
Styrene	mg/kg	< 0,001	0,07	25,1
Polycyclic aromatic hydrocarbons (PAH) - total ¹	mg/kg	< 0,02	1	40
Polychlorinated biphenyls (PCB) - total ²	mg/kg	< 0,004 *	0,005	0,2
Pesticides				
DDT	mg/kg	< 0,002 *	0,002	1,0
DDD	mg/kg	< 0,002 *	0,002	1,0
DDE	mg/kg	< 0,002 *	0,002	1,0
Drini ³	mg/kg	< 0,001 *	0,001	1,0
Aldrin	mg/kg	< 1×10 ⁻⁵ *	1,5×10 ⁻⁵	-
Dieldrin	mg/kg	< 0,0001 *	0,0001	-
Endrin	mg/kg	< 1×10 ⁻⁶ *	1×10 ⁻⁵	-
HCH – compounds ⁴	mg/kg	< 0,003	0,002	0,5
α -HCH	mg/kg	< 0,0006 *	0,0007	-
β -HCH	mg/kg	< 0,002 *	0,002	-
γ -HCH	mg/kg	< 1×10 ⁻⁵ *	1,3×10 ⁻⁵	-



δ -HCH	mg/kg	< 0,003	-	-
Heptachlor	mg/kg	< 0,0001	0,0002	1,0
Heptachlor epoxide	mg/kg	< 1×10^{-8} *	5×10^{-8}	1,0
Chlordane	mg/kg	< 1×10^{-6} *	$7,5 \times 10^{-6}$	1,0
Endosulfan	mg/kg	< 1×10^{-6} *	$2,5 \times 10^{-6}$	1,0
Mineral oils	mg/kg	<10	12,55	1255

*- value under the scope of accredited methods

¹ The sum of ten polycyclic aromatic hydrocarbons: naphthalene, anthracene, phenanthrene, fluoranthene, benzo (a) anthracene, chrysene, benzo (a) pyrene, benzo (g, h, i) perylene, benzo (k) fluoranthene, indeno (1,2, 3-cd) pyrene.

²In case of remediation values taken suspicion of polychlorinated biphenyls congeners: PCB 28,52,101,118,138,153 and 180: in case of limit values taking the sum of the same congeners except PCB118

³ Under the "Drina" means the sum of aldrin, dieldrin and endrin.

⁴ Under HCH (hexachloreyclohexane) means the sum of αHCH, βHCH, γHCH and δHCH

Results

Sampling point: BOR 5

ID number: 1903063005 (Depth 0 - 30 cm)

Parameter	Unit of measurement	The measured value	Limit value	Remediation value
Clay content	%	29,98	-	-
Organic matter content	%	2,18	-	-
TOC	%	1,26	-	-
PH in H ₂ O		7,6	-	-
Dry matter content	%	97,6	-	-
Water content	%	2,4	-	-
Cadmium (Cd)	mg/kg	< 0,4	0,7	10,0
Chrom (Cr)	mg/kg	74,5	110,0	417,8
Copper (Cu)	mg/kg	29,5	34,3	181,0
Nickel (Ni)	mg/kg	50,1	40,0	239,9
Lead (Pb)	mg/kg	37,9	82,2	512,3
Cobalt (Co)	mg/kg	8,3	10,4	277,2
Molybdenum (Mo)	mg/kg	< 1	3	200
Zinc (Zn)	mg/kg	73,0	143,2	736,5
Mercury (Hg)	mg/kg	<0,1	0,3	10,1
Arsenic (As)	mg/kg	10,2	27,9	52,8
Aromatic organic compounds				
Benzene	mg/kg	< 0,001	0,002	0,2
Ethylbenzene	mg/kg	< 0,001	0,006	10,9
Toluene	mg/kg	< 0,001	0,002	28,3
Xylene	mg/kg	< 0,001	0,02	5,4
Styrene	mg/kg	< 0,001	0,06	21,8
Polycyclic aromatic hydrocarbons (PAH) - total ¹	mg/kg	< 0,02	1	40
Polychlorinated biphenyls (PCB) - total ²	mg/kg	< 0,004 *	0,004	0,2



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Pesticides				
DDT	mg/kg	< 0,002 *	0,002	0,9
DDD	mg/kg	< 0,002 *	0,002	0,9
DDE	mg/kg	< 0,002 *	0,002	0,9
Drini ³	mg/kg	< 0,001 *	0,001	0,9
Aldrin	mg/kg	< 1×10 ⁻⁵ *	1,3×10 ⁻⁵	-
Dieldrin	mg/kg	< 0,0001 *	0,0001	-
Endrin	mg/kg	< 1×10 ⁻⁶ *	8,7×10 ⁻⁶	-
HCH – compounds ⁴	mg/kg	< 0,003	0,002	0,4
α -HCH	mg/kg	< 0,0006 *	0,0006	-
β -HCH	mg/kg	< 0,002 *	0,002	-
γ -HCH	mg/kg	< 1×10 ⁻⁵ *	1,1×10 ⁻⁵	-
δ -HCH	mg/kg	< 0,003	-	-
Heptachlor	mg/kg	< 0,0001	0,0001	0,9
Heptachlor epoxide	mg/kg	< 1×10 ⁻⁸ *	4,4 ×10 ⁻⁸	0,9
Chlordane	mg/kg	< 1×10 ⁻⁶ *	6,5 ×10 ⁻⁶	0,9
Endosulfan	mg/kg	< 1×10 ⁻⁶ *	2,2×10 ⁻⁶	0,9
Mineral oils	mg/kg	<10	10,90	1090

*- value under the scope of accredited methods

¹ The sum of ten polycyclic aromatic hydrocarbons: naphthalene, anthracene, phenanthrene, fluoranthene, benzo (a) anthracene, chrysene, benzo (a) pyrene, benzo (g, h, i) perylene, benzo (k) fluoranthene, indeno (1,2, 3-cd) pyrene.

²In case of remediation values taken suspicion of polychlorinated biphenyls congeners: PCB 28,52,101,118,138,153 and 180: in case of limit values taking the sum of the same congeners except PCB118

³ Under the "Drina" means the sum of aldrin, dieldrin and endrin.

⁴ Under HCH (hexachlorocyclohexane) means the sum of αHCH, βHCH, γHCH and δHCH

Results

Sampling point: BOR 6

ID number: 1903063006 (Depth 0 - 30 cm)

Parameter	Unit of measurement	The measured value	Limit value	Remediation value
Clay content	%	32,47	-	-
Organic matter content	%	2,52	-	-
TOC	%	1,46	-	-
PH in H ₂ O		7,1	-	-
Dry matter content	%	97,5	-	-
Water content	%	2,5	-	-
Cadmium (Cd)	mg/kg	< 0,4	0,7	10,4
Chrom (Cr)	mg/kg	85,8	114,9	436,8
Copper (Cu)	mg/kg	30,1	36,0	190,0
Nickel (Ni)	mg/kg	50,0	42,5	254,8
Lead (Pb)	mg/kg	38,7	85,0	529,9
Cobalt (Co)	mg/kg	8,1	11,1	295,8
Molybdenum (Mo)	mg/kg	< 1	3	200



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Zinc (Zn)	mg/kg	75,2	151,2	777,5
Mercury (Hg)	mg/kg	<0,1	0,3	10,4
Arsenic (As)	mg/kg	10,7	29,0	55,0
Aromatic organic compounds				
Benzene	mg/kg	< 0,001	0,002	0,2
Ethylbenzene	mg/kg	< 0,001	0,007	12,6
Toluene	mg/kg	< 0,001	0,002	32,8
Xylene	mg/kg	< 0,001	0,02	6,3
Styrene	mg/kg	< 0,001	0,07	25,2
Polycyclic aromatic hydrocarbons (PAH) - total ¹	mg/kg	< 0,02	1	40
Polychlorinated biphenyls (PCB) - total ²	mg/kg	< 0,004 *	0,005	0,2
Pesticides				
DDT	mg/kg	< 0,002 *	0,002	1,0
DDD	mg/kg	< 0,002 *	0,002	1,0
DDE	mg/kg	< 0,002 *	0,002	1,0
Drini ³	mg/kg	< 0,001 *	0,001	1,0
Aldrin	mg/kg	< 1×10 ⁻⁵ *	1,5×10 ⁻⁵	-
Dieldrin	mg/kg	< 0,0001 *	0,0001	-
Endrin	mg/kg	< 1×10 ⁻⁶ *	1×10 ⁻⁵	-
HCH – compounds ⁴	mg/kg	<0,003	0,002	0,5
α -HCH	mg/kg	< 0,0006 *	0,0007	-
β -HCH	mg/kg	< 0,002 *	0,002	-
γ -HCH	mg/kg	< 1×10 ⁻⁵ *	1,3×10 ⁻⁵	-
δ -HCH	mg/kg	< 0,003	-	-
Heptachlor	mg/kg	< 0,0001	0,0002	1,0
Heptachlor epoxide	mg/kg	< 1×10 ⁻⁸ *	5 ×10 ⁻⁸	1,0
Chlordane	mg/kg	< 1×10 ⁻⁶ *	7×10 ⁻⁶	1,0
Endosulfan	mg/kg	< 1×10 ⁻⁶ *	2×10 ⁻⁶	1,0
Mineral oils	mg/kg	<10	12,60	1260

* - value under the scope of accredited methods

¹ The sum of ten polycyclic aromatic hydrocarbons: naphthalene, anthracene, phenanthrene, fluoranthene, benzo (a) anthracene, chrysene, benzo (a) pyrene, benzo (g, h, i) perylene, benzo (k) fluoranthene, indeno (1,2, 3-cd) pyrene.

² In case of remediation values taken suspicion of polychlorinated biphenyls congeners: PCB 28,52,101,118,138,153 and 180: in case of limit values taking the sum of the same congeners except PCB118

³ Under the "Drina" means the sum of aldrin, dieldrin and endrin.

⁴ Under HCH (hexachlorocyclohexane) means the sum of αHCH, βHCH, γHCH and δHCH



Results

Sampling point: BOR 7

ID number: 1903063007 (Depth 0 - 30 cm)

Parameter	Unit of measurement	The measured value	Limit value	Remediation value
Clay content	%	29,99	-	-
Organic matter content	%	2,60	-	-
TOC	%	1,51	-	-
PH in H ₂ O		7,0	-	-
Dry matter content	%	97,1	-	-
Water content	%	2,9	-	-
Cadmium (Cd)	mg/kg	< 0,4	0,7	10,2
Chrom (Cr)	mg/kg	80,9	110,0	417,9
Copper (Cu)	mg/kg	27,9	34,6	182,4
Nickel (Ni)	mg/kg	48,0	40,0	239,9
Lead (Pb)	mg/kg	35,6	82,6	515,0
Cobalt (Co)	mg/kg	7,9	10,4	277,2
Molybdenum (Mo)	mg/kg	< 1	3	200
Zinc (Zn)	mg/kg	71,9	143,9	739,9
Mercury (Hg)	mg/kg	<0,1	0,3	10,1
Arsenic (As)	mg/kg	10,8	28,0	53,2
Aromatic organic compounds				
Benzene	mg/kg	< 0,001	0,003	0,3
Ethylbenzene	mg/kg	< 0,001	0,008	13
Toluene	mg/kg	< 0,001	0,003	33,8
Xylene	mg/kg	< 0,001	0,03	6,5
Styrene	mg/kg	< 0,001	0,08	26
Polycyclic aromatic hydrocarbons (PAH) - total ¹	mg/kg	< 0,02	1	40
Polychlorinated biphenyls (PCB) - total ²	mg/kg	< 0,004 *	0,005	0,3
Pesticides				
DDT	mg/kg	< 0,002 *	0,003	1,0
DDD	mg/kg	< 0,002 *	0,003	1,0
DDE	mg/kg	< 0,002 *	0,003	1,0
Drini ³	mg/kg	< 0,001 *	0,001	1,0
Aldrin	mg/kg	< 1×10 ⁻⁵ *	1,6×10 ⁻⁵	-
Dieldrin	mg/kg	< 0,0001 *	0,0001	-
Endrin	mg/kg	< 1×10 ⁻⁶ *	1×10 ⁻⁵	-
HCH – compounds ⁴	mg/kg	<0,003	0,003	0,5
α -HCH	mg/kg	< 0,0006 *	0,0008	-
β -HCH	mg/kg	< 0,002 *	0,002	-



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γ -HCH	mg/kg	$< 1 \times 10^{-5} *$	1×10^{-5}	-
δ -HCH	mg/kg	$< 0,003$	-	-
Heptachlor	mg/kg	$< 0,0001$	0,0002	1,0
Heptachlor epoxide	mg/kg	$< 1 \times 10^{-8} *$	5×10^{-8}	1,0
Chlordane	mg/kg	$< 1 \times 10^{-6} *$	8×10^{-6}	1,0
Endosulfan	mg/kg	$< 1 \times 10^{-6} *$	3×10^{-6}	1,0
Mineral oils	mg/kg	< 10	13	1300

*- value under the scope of accredited methods

¹ The sum of ten polycyclic aromatic hydrocarbons: naphthalene, anthracene, phenanthrene, fluoranthene, benzo (a) anthracene, chrysene, benzo (a) pyrene, benzo (g, h, i) perylene, benzo (k) fluoranthene, indeno (1,2, 3-cd) pyrene.

²In case of remediation values taken suspicion of polychlorinated biphenyls congeners: PCB 28,52,101,118,138,153 and 180: in case of limit values taking the sum of the same congeners except PCB118

³ Under the "Drina" means the sum of aldrin, dieldrin and endrin.

⁴ Under HCH (hexachlorocyclohexane) means the sum of α HCH, β HCH, γ HCH and δ HCH



Results

Sampling point: BOR 8

ID number: 1903063008 (Depth 0 - 30 cm)

Parameter	Unit of measurement	The measured value	Limit value	Remediation value
Clay content	%	24,99	-	-
Organic matter content	%	2,63	-	-
TOC	%	1,53	-	-
PH in H ₂ O		6,9	-	-
Dry matter content	%	97,1	-	-
Water content	%	2,9	-	-
Cadmium (Cd)	mg/kg	< 0,4	0,6	9,6
Chrom (Cr)	mg/kg	84,3	100,0	379,9
Copper (Cu)	mg/kg	29,7	31,6	166,6
Nickel (Ni)	mg/kg	50,6	35,0	209,9
Lead (Pb)	mg/kg	32,4	77,6	484,0
Cobalt (Co)	mg/kg	8,2	9,0	239,9
Molybdenum (Mo)	mg/kg	< 1	3	200
Zinc (Zn)	mg/kg	72,8	128,9	663,0
Mercury (Hg)	mg/kg	<0,1	0,3	9,6
Arsenic (As)	mg/kg	10,1	26,0	49,4
Aromatic organic compounds				
Benzene	mg/kg	< 0,001	0,003	0,2
Ethylbenzene	mg/kg	< 0,001	0,008	13,1
Toluene	mg/kg	< 0,001	0,003	34,2
Xylene	mg/kg	< 0,001	0,03	6,6
Styrene	mg/kg	< 0,001	0,08	26,3
Polycyclic aromatic hydrocarbons (PAH) - total ¹	mg/kg	< 0,02	1	40
Polychlorinated biphenyls (PCB) - total ²	mg/kg	< 0,004 *	0,005	0,3
Pesticides				
DDT	mg/kg	< 0,002 *	0,003	1,0
DDD	mg/kg	< 0,002 *	0,003	1,0
DDE	mg/kg	< 0,002 *	0,003	1,0
Drini ³	mg/kg	< 0,001 *	0,001	1,0
Aldrin	mg/kg	< 1×10 ⁻⁵ *	1,6×10 ⁻⁵	-
Dieldrin	mg/kg	< 0,0001 *	0,0001	-
Endrin	mg/kg	< 1×10 ⁻⁶ *	1×10 ⁻⁵	-
HCH – compounds ⁴	mg/kg	<0,003	0,003	0,5
α -HCH	mg/kg	< 0,0006 *	0,0008	-
β -HCH	mg/kg	< 0,002 *	0,002	-
γ -HCH	mg/kg	< 1×10 ⁻⁵ *	1×10 ⁻⁵	-



δ -HCH	mg/kg	< 0,003	-	-
Heptachlor	mg/kg	< 0,0001	0,0002	1,0
Heptachlor epoxide	mg/kg	< 1×10^{-8} *	5×10^{-8}	1,0
Chlordane	mg/kg	< 1×10^{-6} *	8×10^{-6}	1,0
Endosulfan	mg/kg	< 1×10^{-6} *	3×10^{-6}	1,0
Mineral oils	mg/kg	<10	13,15	1315

*- value under the scope of accredited methods

¹ The sum of ten polycyclic aromatic hydrocarbons: naphthalene, anthracene, phenanthrene, fluoranthene, benzo (a) anthracene, chrysene, benzo (a) pyrene, benzo (g, h, i) perylene, benzo (k) fluoranthene, indeno (1,2, 3-cd) pyrene.

²In case of remediation values taken suspicion of polychlorinated biphenyls congeners: PCB 28,52,101,118,138,153 and 180: in case of limit values taking the sum of the same congeners except PCB118

³ Under the "Drina" means the sum of aldrin, dieldrin and endrin.

⁴ Under HCH (hexachlorocyclohexane) means the sum of αHCH, βHCH, γHCH and δHCH

Results

Sampling point: BOR 9

ID number: 1903063009 (Depth 0 - 30 cm)

Parameter	Unit of measurement	The measured value	Limit value	Remediation value
Clay content	%	27,49	-	-
Organic matter content	%	2,79	-	-
TOC	%	1,62	-	-
PH in H ₂ O		6,8	-	-
Dry matter content	%	97,5	-	-
Water content	%	2,5	-	-
Cadmium (Cd)	mg/kg	< 0,4	0,7	10,0
Chrom (Cr)	mg/kg	96,7	105,0	398,9
Copper (Cu)	mg/kg	20,1	33,2	175,1
Nickel (Ni)	mg/kg	52,5	37,5	224,9
Lead (Pb)	mg/kg	34,4	80,3	500,6
Cobalt (Co)	mg/kg	8,6	9,7	258,6
Molybdenum (Mo)	mg/kg	< 1	3	200
Zinc (Zn)	mg/kg	75,4	136,7	702,8
Mercury (Hg)	mg/kg	<0,1	0,3	9,9
Arsenic (As)	mg/kg	10,2	27,1	51,4
Aromatic organic compounds				
Benzene	mg/kg	< 0,001	0,003	0,3
Ethylbenzene	mg/kg	< 0,001	0,008	13,9
Toluene	mg/kg	< 0,001	0,003	36,3
Xylene	mg/kg	< 0,001	0,03	7,0
Styrene	mg/kg	< 0,001	0,08	27,9
Polycyclic aromatic hydrocarbons (PAH) - total ¹	mg/kg	<0,02	1	40



Polychlorinated biphenyls (PCB) - total ²	mg/kg	< 0,004 *	0,005	0,3
Pesticides				
DDT	mg/kg	< 0,002 *	0,003	1,1
DDD	mg/kg	< 0,002 *	0,003	1,1
DDE	mg/kg	< 0,002 *	0,003	1,1
Drini ³	mg/kg	< 0,001 *	0,001	1,1
Aldrin	mg/kg	< 1×10 ⁻⁵ *	1,7×10 ⁻⁵	-
Dieldrin	mg/kg	< 0,0001 *	0,0001	-
Endrin	mg/kg	< 1×10 ⁻⁶ *	1,1×10 ⁻⁵	-
HCH – compounds ⁴	mg/kg	< 0,003	0,003	0,5
α -HCH	mg/kg	< 0,0006 *	0,0008	-
β -HCH	mg/kg	< 0,002 *	0,002	-
γ -HCH	mg/kg	< 1×10 ⁻⁵ *	1×10 ⁻⁵	-
δ -HCH	mg/kg	< 0,003	-	-
Heptachlor	mg/kg	< 0,0001	0,0002	1,1
Heptachlor epoxide	mg/kg	< 1×10 ⁻⁸ *	5 ×10 ⁻⁸	1,1
Chlordane	mg/kg	< 1×10 ⁻⁶ *	8 ×10 ⁻⁶	1,1
Endosulfan	mg/kg	< 1×10 ⁻⁶ *	3×10 ⁻⁶	1,1
Mineral oils	mg/kg	<10	13,9	1395

*- value under the scope of accredited methods

¹ The sum of ten polycyclic aromatic hydrocarbons: naphthalene, anthracene, phenanthrene, fluoranthene, benzo (a) anthracene, chrysene, benzo (a) pyrene, benzo (g, h, i) perylene, benzo (k) fluoranthene, indeno (1,2, 3-cd) pyrene.

²In case of remediation values taken suspicion of polychlorinated biphenyls congeners: PCB 28,52,101,118,138,153 and 180: in case of limit values taking the sum of the same congeners except PCB118

³ Under the "Drina" means the sum of aldrin, dieldrin and endrin.

⁴ Under HCH (hexachlorocyclohexane) means the sum of αHCH, βHCH, γHCH and δHCH



Results

Sampling point: BOR 10

ID number: 1903063010 (Depth 0 - 30 cm)

Parameter	Unit of measurement	The measured value	Limit value	Remediation value
Clay content	%	32,49	-	-
Organic matter content	%	2,53	-	-
TOC	%	1,46	-	-
PH in H ₂ O		6,9	-	-
Dry matter content	%	97,3	-	-
Water content	%	2,7	-	-
Cadmium (Cd)	mg/kg	< 0,4	0,7	10,4
Chrom (Cr)	mg/kg	92,9	115,0	436,9
Copper (Cu)	mg/kg	32,1	36,0	190,1
Nickel (Ni)	mg/kg	52,2	42,5	254,9
Lead (Pb)	mg/kg	21,4	85,0	530,1
Cobalt (Co)	mg/kg	4,5	11,1	295,9
Molybdenum (Mo)	mg/kg	< 1	3	200
Zinc (Zn)	mg/kg	75,8	151,3	777,9
Mercury (Hg)	mg/kg	<0,1	0,3	10,4
Arsenic (As)	mg/kg	10,3	29,0	55,0
Aromatic organic compounds				
Benzene	mg/kg	< 0,001	0,002	0,2
Ethylbenzene	mg/kg	< 0,001	0,007	12,6
Toluene	mg/kg	< 0,001	0,002	32,9
Xylene	mg/kg	< 0,001	0,02	6,3
Styrene	mg/kg	< 0,001	0,07	25,3
Polycyclic aromatic hydrocarbons (PAH) - total ¹	mg/kg	< 0,02	1	40
Polychlorinated biphenyls (PCB) - total ²	mg/kg	< 0,004 *	0,005	0,2
Pesticides				
DDT	mg/kg	< 0,002 *	0,002	1,0
DDD	mg/kg	< 0,002 *	0,002	1,0
DDE	mg/kg	< 0,002 *	0,002	1,0
Drini ³	mg/kg	< 0,001 *	0,001	1,0
Aldrin	mg/kg	< 1×10 ⁻⁵ *	1,5×10 ⁻⁵	-
Dieldrin	mg/kg	< 0,0001 *	0,0001	-
Endrin	mg/kg	< 1×10 ⁻⁶ *	1×10 ⁻⁵	-
HCH – compounds ⁴	mg/kg	<0,003	0,002	0,5
α -HCH	mg/kg	< 0,0006 *	0,0007	-
β -HCH	mg/kg	< 0,002 *	0,002	-
γ -HCH	mg/kg	< 1×10 ⁻⁵ *	1×10 ⁻⁵	-



δ -HCH	mg/kg	< 0,003	-	-
Heptachlor	mg/kg	< 0,0001	0,0002	1,0
Heptachlor epoxide	mg/kg	< 1×10 ⁻⁸ *	5 x10 ⁻⁸	1,0
Chlordane	mg/kg	< 1×10 ⁻⁶ *	7x10 ⁻⁶	1,0
Endosulfan	mg/kg	< 1×10 ⁻⁶ *	2x10 ⁻⁶	1,0
Mineral oils	mg/kg	<10	12,65	1265

*- value under the scope of accredited methods

¹ The sum of ten polycyclic aromatic hydrocarbons: naphthalene, anthracene, phenanthrene, fluoranthene, benzo (a) anthracene, chrysene, benzo (a) pyrene, benzo (g, h, i) perylene, benzo (k) fluoranthene, indeno (1,2, 3-cd) pyrene.

²In case of remediation values taken suspicion of polychlorinated biphenyls congeners: PCB 28,52,101,118,138,153 and 180: in case of limit values taking the sum of the same congeners except PCB118

³ Under the "Drina" means the sum of aldrin, dieldrin and endrin.

⁴ Under HCH (hexachlorocyclohexane) means the sum of αHCH, βHCH, γHCH and δHCH

Results

Sampling point: BOR 11

ID number: 1903063011 (Depth 0 - 30 cm)

Parameter	Unit of measurement	The measured value	Limit value	Remediation value
Clay content	%	29,96	-	-
Organic matter content	%	2,70	-	-
TOC	%	1,56	-	-
PH in H ₂ O		7,2	-	-
Dry matter content	%	97,7	-	-
Water content	%	2,3	-	-
Cadmium (Cd)	mg/kg	< 0,4	0,7	10,2
Chrom (Cr)	mg/kg	87,7	109,9	417,7
Copper (Cu)	mg/kg	28,7	34,6	182,6
Nickel (Ni)	mg/kg	45,2	40,0	239,8
Lead (Pb)	mg/kg	18,5	82,7	515,4
Cobalt (Co)	mg/kg	7,5	10,4	277,0
Molybdenum (Mo)	mg/kg	< 1	3	200
Zinc (Zn)	mg/kg	67,6	143,9	740,2
Mercury (Hg)	mg/kg	<0,1	0,3	10,1
Arsenic (As)	mg/kg	9,3	28,1	53,2
Aromatic organic compounds				
Benzene	mg/kg	< 0,001	0,003	0,3
Ethylbenzene	mg/kg	< 0,001	0,008	13,5
Toluene	mg/kg	< 0,001	0,003	35,1
Xylene	mg/kg	< 0,001	0,03	6,7
Styrene	mg/kg	< 0,001	0,08	27
Polycyclic aromatic hydrocarbons (PAH) - total ¹	mg/kg	<0,02	1	40
Polychlorinated biphenyls (PCB)	mg/kg	< 0,004 *	0,005	0,3



- total ²				
Pesticides				
DDT	mg/kg	< 0,002 *	0,002	1,1
DDD	mg/kg	< 0,002 *	0,002	1,1
DDE	mg/kg	< 0,002 *	0,002	1,1
Drini ³	mg/kg	< 0,001 *	0,001	1,1
Aldrin	mg/kg	< 1×10 ⁻⁵ *	1,5×10 ⁻⁵	-
Dieldrin	mg/kg	< 0,0001 *	0,0001	-
Endrin	mg/kg	< 1×10 ⁻⁶ *	1×10 ⁻⁵	-
HCH – compounds ⁴	mg/kg	<0,003	0,002	0,5
α -HCH	mg/kg	< 0,0006 *	0,0007	-
β -HCH	mg/kg	< 0,002 *	0,002	-
γ -HCH	mg/kg	< 1×10 ⁻⁵ *	1×10 ⁻⁵	-
δ -HCH	mg/kg	< 0,003	-	-
Heptachlor	mg/kg	< 0,0001	0,0002	1,1
Heptachlor epoxide	mg/kg	< 1×10 ⁻⁸ *	5 ×10 ⁻⁸	1,1
Chlordane	mg/kg	< 1×10 ⁻⁶ *	8 ×10 ⁻⁶	1,1
Endosulfan	mg/kg	< 1×10 ⁻⁶ *	3×10 ⁻⁶	1,1
Mineral oils	mg/kg	<10	13,50	1350

*- value under the scope of accredited methods

¹ The sum of ten polycyclic aromatic hydrocarbons: naphthalene, anthracene, phenanthrene, fluoranthene, benzo (a) anthracene, chrysene, benzo (a) pyrene, benzo (g, h, i) perylene, benzo (k) fluoranthene, indeno (1,2, 3-cd) pyrene.

²In case of remediation values taken suspicion of polychlorinated biphenyls congeners: PCB 28,52,101,118,138,153 and 180: in case of limit values taking the sum of the same congeners except PCB118

³ Under the "Drina" means the sum of aldrin, dieldrin and endrin.

⁴ Under HCH (hexachlorocyclohexane) means the sum of αHCH, βHCH, γHCH and δHCH



Results

Sampling point: BOR 12

ID number: 1903063012 (Depth 0 - 30 cm)

Parameter	Unit of measurement	The measured value	Limit value	Remediation value
Clay content	%	31,17	-	-
Organic matter content	%	2,53	-	-
TOC	%	1,47	-	-
PH in H ₂ O		7,4	-	-
Dry matter content	%	97,9	-	-
Water content	%	2,1	-	-
Cadmium (Cd)	mg/kg	< 0,4	0,7	10,3
Chrom (Cr)	mg/kg	89,9	112,3	426,9
Copper (Cu)	mg/kg	33,8	35,2	185,9
Nickel (Ni)	mg/kg	48,7	41,2	247,0
Lead (Pb)	mg/kg	14,5	83,7	521,9
Cobalt (Co)	mg/kg	7,8	10,7	286,1
Molybdenum (Mo)	mg/kg	< 1	3	200
Zinc (Zn)	mg/kg	74,1	147,3	757,6
Mercury (Hg)	mg/kg	<0,1	0,3	10,3
Arsenic (As)	mg/kg	10,3	28,5	54,0
Aromatic organic compounds				
Benzene	mg/kg	< 0,001	0,002	0,2
Ethylbenzene	mg/kg	< 0,001	0,007	12,6
Toluene	mg/kg	< 0,001	0,002	32,9
Xylene	mg/kg	< 0,001	0,02	6,3
Styrene	mg/kg	< 0,001	0,07	25,3
Polycyclic aromatic hydrocarbons (PAH) - total ¹	mg/kg	<0,02	1	40
Polychlorinated biphenyls (PCB) - total ²	mg/kg	< 0,004 *	0,005	0,2
Pesticides				
DDT	mg/kg	< 0,002 *	0,003	1,0
DDD	mg/kg	< 0,002 *	0,003	1,0
DDE	mg/kg	< 0,002 *	0,003	1,0
Drini ³	mg/kg	< 0,001 *	0,001	1,0
Aldrin	mg/kg	< 1×10 ⁻⁵ *	1,6×10 ⁻⁵	-
Dieldrin	mg/kg	< 0,0001 *	0,0001	-
Endrin	mg/kg	< 1×10 ⁻⁶ *	1×10 ⁻⁵	-
HCH – compounds ⁴	mg/kg	<0,003	0,003	0,5
α -HCH	mg/kg	< 0,0006 *	0,0008	-
β -HCH	mg/kg	< 0,002 *	0,002	-



γ -HCH	mg/kg	$< 1 \times 10^{-5} *$	1×10^{-5}	-
δ -HCH	mg/kg	$< 0,003$	-	-
Heptachlor	mg/kg	$< 0,0001$	0,0002	1,0
Heptachlor epoxide	mg/kg	$< 1 \times 10^{-8} *$	5×10^{-8}	1,0
Chlordane	mg/kg	$< 1 \times 10^{-6} *$	7×10^{-6}	1,0
Endosulfan	mg/kg	$< 1 \times 10^{-6} *$	2×10^{-6}	1,0
Mineral oils	mg/kg	< 10	12,65	1265

*- value under the scope of accredited methods

¹ The sum of ten polycyclic aromatic hydrocarbons: naphthalene, anthracene, phenanthrene, fluoranthene, benzo (a) anthracene, chrysene, benzo (a) pyrene, benzo (g, h, i) perylene, benzo (k) fluoranthene, indeno (1,2, 3-cd) pyrene.

²In case of remediation values taken suspicion of polychlorinated biphenyls congeners: PCB 28,52,101,118,138,153 and 180: in case of limit values taking the sum of the same congeners except PCB118

³ Under the "Drina" means the sum of aldrin, dieldrin and endrin.

⁴ Under HCH (hexachlorocyclohexane) means the sum of α HCH, β HCH, γ HCH and δ HCH

Results

Sampling point: BOR 13

ID number: 1903063013 (Depth 0 - 30 cm)

Parameter	Unit of measurement	The measured value	Limit value	Remediation value
Clay content	%	29,90	-	-
Organic matter content	%	2,73	-	-
TOC	%	1,59	-	-
PH in H ₂ O		7,3	-	-
Dry matter content	%	97,5	-	-
Water content	%	2,5	-	-
Cadmium (Cd)	mg/kg	$< 0,4$	0,7	10,2
Chrom (Cr)	mg/kg	100,6	109,8	417,2
Copper (Cu)	mg/kg	34,5	34,6	182,5
Nickel (Ni)	mg/kg	50,5	39,9	239,4
Lead (Pb)	mg/kg	22,4	82,6	515,2
Cobalt (Co)	mg/kg	5,7	10,4	276,6
Molybdenum (Mo)	mg/kg	< 1	3	200
Zinc (Zn)	mg/kg	49,8	143,8	739,5
Mercury (Hg)	mg/kg	$< 0,1$	0,3	10,1
Arsenic (As)	mg/kg	10,8	28,1	53,2
Aromatic organic compounds				
Benzene	mg/kg	$< 0,001$	0,003	0,3
Ethylbenzene	mg/kg	$< 0,001$	0,008	13,6
Toluene	mg/kg	$< 0,001$	0,003	35,5
Xylene	mg/kg	$< 0,001$	0,03	6,8
Styrene	mg/kg	$< 0,001$	0,08	27,3
Polycyclic aromatic hydrocarbons (PAH) - total ¹	mg/kg	$< 0,02$	1	40



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Polychlorinated biphenyls (PCB) - total ²	mg/kg	< 0,004 *	0,005	0,3
Pesticides				
DDT	mg/kg	< 0,002 *	0,003	1,1
DDD	mg/kg	< 0,002 *	0,003	1,1
DDE	mg/kg	< 0,002 *	0,003	1,1
Drini ³	mg/kg	< 0,001 *	0,001	1,1
Aldrin	mg/kg	< 1×10 ⁻⁵ *	1,6×10 ⁻⁵	-
Dieldrin	mg/kg	< 0,0001 *	0,0001	-
Endrin	mg/kg	< 1×10 ⁻⁶ *	1×10 ⁻⁵	-
HCH – compounds ⁴	mg/kg	< 0,003	0,003	0,5
α -HCH	mg/kg	< 0,0006 *	0,0008	-
β -HCH	mg/kg	< 0,002 *	0,002	-
γ -HCH	mg/kg	< 1×10 ⁻⁵ *	1×10 ⁻⁵	-
δ -HCH	mg/kg	< 0,003	-	-
Heptachlor	mg/kg	< 0,0001	0,0002	1,1
Heptachlor epoxide	mg/kg	< 1×10 ⁻⁸ *	5 ×10 ⁻⁸	1,1
Chlordane	mg/kg	< 1×10 ⁻⁶ *	8 ×10 ⁻⁶	1,1
Endosulfan	mg/kg	< 1×10 ⁻⁶ *	3×10 ⁻⁶	1,1
Mineral oils	mg/kg	<10	13,65	1365

*- value under the scope of accredited methods

¹ The sum of ten polycyclic aromatic hydrocarbons: naphthalene, anthracene, phenanthrene, fluoranthene, benzo (a) anthracene, chrysene, benzo (a) pyrene, benzo (g, h, i) perylene, benzo (k) fluoranthene, indeno (1,2, 3-cd) pyrene.

²In case of remediation values taken suspicion of polychlorinated biphenyls congeners: PCB 28,52,101,118,138,153 and 180: in case of limit values taking the sum of the same congeners except PCB118

³ Under the "Drina" means the sum of aldrin, dieldrin and endrin.

⁴ Under HCH (hexachlorocyclohexane) means the sum of αHCH, βHCH, γHCH and δHCH



Results

Sampling point: BOR 14

ID number: 1903063014 (Depth 0 - 30 cm)

Parameter	Unit of measurement	The measured value	Limit value	Remediation value
Clay content	%	24,98	-	-
Organic matter content	%	2,67	-	-
TOC	%	1,55	-	-
PH in H ₂ O		8,1	-	-
Dry matter content	%	98,2	-	-
Water content	%	1,8	-	-
Cadmium (Cd)	mg/kg	< 0,4	0,6	9,6
Chrom (Cr)	mg/kg	96,0	100,0	379,8
Copper (Cu)	mg/kg	30,0	31,6	166,7
Nickel (Ni)	mg/kg	52,1	35,0	209,9
Lead (Pb)	mg/kg	26,8	77,7	484,2
Cobalt (Co)	mg/kg	5,7	9,0	239,8
Molybdenum (Mo)	mg/kg	< 1	3	200
Zinc (Zn)	mg/kg	67,6	128,9	663,1
Mercury (Hg)	mg/kg	<0,1	0,3	9,6
Arsenic (As)	mg/kg	10,0	26,1	49,4
Aromatic organic compounds				
Benzene	mg/kg	< 0,001	0,003	0,3
Ethylbenzene	mg/kg	< 0,001	0,008	13,3
Toluene	mg/kg	< 0,001	0,003	34,7
Xylene	mg/kg	< 0,001	0,03	6,8
Styrene	mg/kg	< 0,001	0,08	26,7
Polycyclic aromatic hydrocarbons (PAH) - total ¹	mg/kg	<0,02	1	40
Polychlorinated biphenyls (PCB) - total ²	mg/kg	< 0,004 *	0,005	0,3
Pesticides				
DDT	mg/kg	< 0,002 *	0,003	1,1
DDD	mg/kg	< 0,002 *	0,003	1,1
DDE	mg/kg	< 0,002 *	0,003	1,1
Drini ³	mg/kg	< 0,001 *	0,001	1,1
Aldrin	mg/kg	< 1×10 ⁻⁵ *	1,7×10 ⁻⁵	-
Dieldrin	mg/kg	< 0,0001 *	0,0001	-
Endrin	mg/kg	< 1×10 ⁻⁶ *	1,1×10 ⁻⁵	-
HCH – compounds ⁴	mg/kg	<0,003	0,003	0,5
α -HCH	mg/kg	< 0,0006 *	0,0008	-
β -HCH	mg/kg	< 0,002 *	0,002	-



γ -HCH	mg/kg	$< 1 \times 10^{-5} *$	1×10^{-5}	-
δ -HCH	mg/kg	$< 0,003$	-	-
Heptachlor	mg/kg	$< 0,0001$	0,0002	1,1
Heptachlor epoxide	mg/kg	$< 1 \times 10^{-8} *$	5×10^{-8}	1,1
Chlordane	mg/kg	$< 1 \times 10^{-6} *$	8×10^{-6}	1,1
Endosulfan	mg/kg	$< 1 \times 10^{-6} *$	3×10^{-6}	1,1
Mineral oils	mg/kg	< 10	13,35	1335

*- value under the scope of accredited methods

¹ The sum of ten polycyclic aromatic hydrocarbons: naphthalene, anthracene, phenanthrene, fluoranthene, benzo (a) anthracene, chrysene, benzo (a) pyrene, benzo (g, h, i) perylene, benzo (k) fluoranthene, indeno (1,2, 3-cd) pyrene.

²In case of remediation values taken suspicion of polychlorinated biphenyls congeners: PCB 28,52,101,118,138,153 and 180: in case of limit values taking the sum of the same congeners except PCB118

³ Under the "Drina" means the sum of aldrin, dieldrin and endrin.

⁴ Under HCH (hexachlorocyclohexane) means the sum of α HCH, β HCH, γ HCH and δ HCH

Results

Sampling point: BOR 15

ID number: 1903063015 (Depth 0 - 30 cm)

Parameter	Unit of measurement	The measured value	Limit value	Remediation value
Clay content	%	24,97	-	-
Organic matter content	%	2,72	-	-
TOC	%	1,58	-	-
PH in H ₂ O		8,1	-	-
Dry matter content	%	98,2	-	-
Water content	%	1,8	-	-
Cadmium (Cd)	mg/kg	$< 0,4$	0,6	9,7
Chrom (Cr)	mg/kg	96,5	99,9	379,8
Copper (Cu)	mg/kg	32,9	31,6	166,9
Nickel (Ni)	mg/kg	47,6	35,0	209,8
Lead (Pb)	mg/kg	29,3	77,7	484,4
Cobalt (Co)	mg/kg	9,4	9,0	239,8
Molybdenum (Mo)	mg/kg	< 1	3	200
Zinc (Zn)	mg/kg	68,6	129,0	663,4
Mercury (Hg)	mg/kg	$< 0,1$	0,3	9,6
Arsenic (As)	mg/kg	10,3	26,1	49,5
Aromatic organic compounds				
Benzene	mg/kg	$< 0,001$	0,003	0,3
Ethylbenzene	mg/kg	$< 0,001$	0,008	13,6
Toluene	mg/kg	$< 0,001$	0,003	35,4
Xylene	mg/kg	$< 0,001$	0,03	6,8
Styrene	mg/kg	$< 0,001$	0,08	27,2
Polycyclic aromatic hydrocarbons (PAH) - total ¹	mg/kg	$< 0,02$	1	40
Polychlorinated biphenyls (PCB) - total ²	mg/kg	$< 0,004 *$	0,005	0,3



Pesticides				
DDT	mg/kg	< 0,002 *	0,002	1,1
DDD	mg/kg	< 0,002 *	0,002	1,1
DDE	mg/kg	< 0,002 *	0,002	1,1
Drini ³	mg/kg	< 0,001 *	0,001	1,1
Aldrin	mg/kg	< 1×10 ⁻⁵ *	1,3×10 ⁻⁵	-
Dieldrin	mg/kg	< 0,0001 *	0,0001	-
Endrin	mg/kg	< 1×10 ⁻⁶ *	1×10 ⁻⁵	-
HCH – compounds ⁴	mg/kg	<0,003	0,002	0,5
α -HCH	mg/kg	< 0,0006 *	0,0008	-
β -HCH	mg/kg	< 0,002 *	0,002	-
γ -HCH	mg/kg	< 1×10 ⁻⁵ *	1×10 ⁻⁵	-
δ -HCH	mg/kg	< 0,003	-	-
Heptachlor	mg/kg	< 0,0001	0,0002	1,1
Heptachlor epoxide	mg/kg	< 1×10 ⁻⁸ *	5×10 ⁻⁸	1,1
Chlordane	mg/kg	< 1×10 ⁻⁶ *	8 ×10 ⁻⁶	1,1
Endosulfan	mg/kg	< 1×10 ⁻⁶ *	3×10 ⁻⁶	1,1
Mineral oils	mg/kg	<10	13,60	1360

* - value under the scope of accredited methods

¹ The sum of ten polycyclic aromatic hydrocarbons: naphthalene, anthracene, phenanthrene, fluoranthene, benzo (a) anthracene, chrysene, benzo (a) pyrene, benzo (g, h, i) perylene, benzo (k) fluoranthene, indeno (1,2, 3-cd) pyrene.

²In case of remediation values taken suspicion of polychlorinated biphenyls congeners: PCB 28,52,101,118,138,153 and 180: in case of limit values taking the sum of the same congeners except PCB118

³ Under the "Drina" means the sum of aldrin, dieldrin and endrin.

⁴ Under HCH (hexachloreyclohexane) means the sum of αHCH, βHCH, γHCH and δHCH



Results

Sampling point: BOR 16

ID number: 1903063016 (Depth 0 - 30 cm)

Parameter	Unit of measurement	The measured value	Limit value	Remediation value
Clay content	%	22,48	-	-
Organic matter content	%	2,53	-	-
TOC	%	1,47	-	-
PH in H ₂ O		8,2	-	-
Dry matter content	%	98,1	-	-
Water content	%	1,9	-	-
Cadmium (Cd)	mg/kg	< 0,4	0,6	9,3
Chrom (Cr)	mg/kg	93,8	95,0	360,8
Copper (Cu)	mg/kg	30,5	30,0	158,4
Nickel (Ni)	mg/kg	46,0	32,5	194,9
Lead (Pb)	mg/kg	27,3	75,0	467,7
Cobalt (Co)	mg/kg	8,1	8,3	221,2
Molybdenum (Mo)	mg/kg	< 1	3	200
Zinc (Zn)	mg/kg	68,6	121,2	623,5
Mercury (Hg)	mg/kg	<0,1	0,3	9,3
Arsenic (As)	mg/kg	8,6	25,0	47,4
Aromatic organic compounds				
Benzene	mg/kg	< 0,001	0,002	0,2
Ethylbenzene	mg/kg	< 0,001	0,007	12,6
Toluene	mg/kg	< 0,001	0,002	32,9
Xylene	mg/kg	< 0,001	0,02	6,3
Styrene	mg/kg	< 0,001	0,07	25,3
Polycyclic aromatic hydrocarbons (PAH) - total ¹	mg/kg	<0,02	1	40
Polychlorinated biphenyls (PCB) - total ²	mg/kg	< 0,004 *	0,005	0,2
Pesticides				
DDT	mg/kg	< 0,002 *	0,002	1,0
DDD	mg/kg	< 0,002 *	0,002	1,0
DDE	mg/kg	< 0,002 *	0,002	1,0
Drini ³	mg/kg	< 0,001 *	0,001	1,0
Aldrin	mg/kg	< 1×10 ⁻⁵ *	1,5×10 ⁻⁵	-
Dieldrin	mg/kg	< 0,0001 *	0,0001	-
Endrin	mg/kg	< 1×10 ⁻⁶ *	1×10 ⁻⁵	-
HCH – compounds ⁴	mg/kg	<0,003	0,002	0,5
α -HCH	mg/kg	< 0,0006 *	0,0007	-
β -HCH	mg/kg	< 0,002 *	0,002	-
γ -HCH	mg/kg	< 1×10 ⁻⁵ *	1×10 ⁻⁵	-



δ -HCH	mg/kg	< 0,003	-	-
Heptachlor	mg/kg	< 0,0001	0,0001	1,1
Heptachlor epoxide	mg/kg	< 1×10^{-8} *	5×10^{-8}	1,1
Chlordane	mg/kg	< 1×10^{-6} *	8×10^{-6}	1,1
Endosulfan	mg/kg	< 1×10^{-6} *	3×10^{-6}	1,1
Mineral oils	mg/kg	<10	12,65	1265

*- value under the scope of accredited methods

¹ The sum of ten polycyclic aromatic hydrocarbons: naphthalene, anthracene, phenanthrene, fluoranthene, benzo (a) anthracene, chrysene, benzo (a) pyrene, benzo (g, h, i) perylene, benzo (k) fluoranthene, indeno (1,2, 3-cd) pyrene.

²In case of remediation values taken suspicion of polychlorinated biphenyls congeners: PCB 28,52,101,118,138,153 and 180: in case of limit values taking the sum of the same congeners except PCB118

³ Under the "Drina" means the sum of aldrin, dieldrin and endrin.

⁴ Under HCH (hexachlorocyclohexane) means the sum of αHCH, βHCH, γHCH and δHCH

Results

Sampling point: BOR 17

ID number: 1903063017 (Depth 0 - 30 cm)

Parameter	Unit of measurement	The measured value	Limit value	Remediation value
Clay content	%	24,99	-	-
Organic matter content	%	2,41	-	-
TOC	%	1,40	-	-
PH in H ₂ O		8,2	-	-
Dry matter content	%	92,8	-	-
Water content	%	7,2	-	-
Cadmium (Cd)	mg/kg	< 0,4	0,6	9,6
Chrom (Cr)	mg/kg	80,8	100,0	379,9
Copper (Cu)	mg/kg	22,5	31,4	165,9
Nickel (Ni)	mg/kg	51,9	35,0	209,9
Lead (Pb)	mg/kg	46,5	77,4	482,6
Cobalt (Co)	mg/kg	7,4	9,0	239,9
Molybdenum (Mo)	mg/kg	< 1	3	200
Zinc (Zn)	mg/kg	72,7	128,6	661,3
Mercury (Hg)	mg/kg	<0,1	0,3	9,6
Arsenic (As)	mg/kg	8,1	26,0	49,2
Aromatic organic compounds				
Benzene	mg/kg	< 0,001	0,002	0,2
Ethylbenzene	mg/kg	< 0,001	0,007	12,0
Toluene	mg/kg	< 0,001	0,002	31,3
Xylene	mg/kg	< 0,001	0,02	6,0
Styrene	mg/kg	< 0,001	0,07	24,1
Polycyclic aromatic hydrocarbons (PAH) - total ¹	mg/kg	<0,02	1	40
Polychlorinated biphenyls (PCB) - total ²	mg/kg	< 0,004 *	0,005	0,2
Pesticides				



DDT	mg/kg	< 0,002 *	0,002	1,0
DDD	mg/kg	< 0,002 *	0,002	1,0
DDE	mg/kg	< 0,002 *	0,002	1,0
Drini ³	mg/kg	< 0,001 *	0,001	1,0
Aldrin	mg/kg	< 1×10 ⁻⁵ *	1,4×10 ⁻⁵	-
Dieldrin	mg/kg	< 0,0001 *	0,0001	-
Endrin	mg/kg	< 1×10 ⁻⁶ *	9,6×10 ⁻⁶	-
HCH – compounds ⁴	mg/kg	<0,003	0,002	0,5
α -HCH	mg/kg	< 0,0006 *	0,0007	-
β -HCH	mg/kg	< 0,002 *	0,002	-
γ -HCH	mg/kg	< 1×10 ⁻⁵ *	1×10 ⁻⁵	-
δ -HCH	mg/kg	< 0,003	-	-
Heptachlor	mg/kg	< 0,0001	0,0001	1,0
Heptachlor epoxide	mg/kg	< 1×10 ⁻⁸ *	4 ×10 ⁻⁸	1,0
Chlordane	mg/kg	< 1×10 ⁻⁶ *	6 ×10 ⁻⁶	1,0
Endosulfan	mg/kg	< 1×10 ⁻⁶ *	2×10 ⁻⁶	1,0
Mineral oils	mg/kg	<10	12,05	1205

*- value under the scope of accredited methods

¹ The sum of ten polycyclic aromatic hydrocarbons: naphthalene, anthracene, phenanthrene, fluoranthene, benzo (a) anthracene, chrysene, benzo (a) pyrene, benzo (g, h, i) perylene, benzo (k) fluoranthene, indeno (1,2, 3-cd) pyrene.

²In case of remediation values taken suspicion of polychlorinated biphenyls congeners: PCB 28,52,101,118,138,153 and 180; in case of limit values taking the sum of the same congeners except PCB118

³ Under the "Drina" means the sum of aldrin, dieldrin and endrin.

⁴ Under HCH (hexachloreyclohexane) means the sum of αHCH, βHCH, γHCH and δHCH



Results

Sampling point: BOR 18

ID number: 1903063018 (Depth 0 - 30 cm)

Parameter	Unit of measurement	The measured value	Limit value	Remediation value
Clay content	%	19,94	-	-
Organic matter content	%	2,53	-	-
TOC	%	1,47	-	-
PH in H ₂ O		8,2	-	-
Dry matter content	%	98,0	-	-
Water content	%	2,0	-	-
Cadmium (Cd)	mg/kg	< 0,4	0,6	9,1
Chrom (Cr)	mg/kg	84,5	89,9	341,5
Copper (Cu)	mg/kg	31,8	28,5	150,3
Nickel (Ni)	mg/kg	48,1	29,9	179,6
Lead (Pb)	mg/kg	23,0	72,5	451,9
Cobalt (Co)	mg/kg	8,2	7,6	202,2
Molybdenum (Mo)	mg/kg	< 1	3	200
Zinc (Zn)	mg/kg	71,6	113,6	584,3
Mercury (Hg)	mg/kg	<0,1	0,3	9,0
Arsenic (As)	mg/kg	9,5	24,0	45,5
Aromatic organic compounds				
Benzene	mg/kg	< 0,001	0,002	0,2
Ethylbenzene	mg/kg	< 0,001	0,007	12,6
Toluene	mg/kg	< 0,001	0,002	32,9
Xylene	mg/kg	< 0,001	0,02	6,3
Styrene	mg/kg	< 0,001	0,07	25,3
Polycyclic aromatic hydrocarbons (PAH) - total ¹	mg/kg	<0,02	1	40
Polychlorinated biphenyls (PCB) - total ²	mg/kg	< 0,004 *	0,005	0,2
Pesticides				
DDT	mg/kg	< 0,002 *	0,002	1,0
DDD	mg/kg	< 0,002 *	0,002	1,0
DDE	mg/kg	< 0,002 *	0,002	1,0
Drini ³	mg/kg	< 0,001 *	0,001	1,0
Aldrin	mg/kg	< 1×10 ⁻⁵ *	1,5×10 ⁻⁵	-
Dieldrin	mg/kg	< 0,0001 *	0,0001	-
Endrin	mg/kg	< 1×10 ⁻⁶ *	1×10 ⁻⁵	-
HCH – compounds ⁴	mg/kg	<0,003	0,002	0,5
α -HCH	mg/kg	< 0,0006 *	0,0007	-
β -HCH	mg/kg	< 0,002 *	0,002	-
γ -HCH	mg/kg	< 1×10 ⁻⁵ *	1×10 ⁻⁵	-



δ -HCH	mg/kg	< 0,003	-	-
Heptachlor	mg/kg	< 0,0001	0,0001	1,1
Heptachlor epoxide	mg/kg	< 1×10^{-8} *	4×10^{-8}	1,1
Chlordane	mg/kg	< 1×10^{-6} *	6×10^{-6}	1,1
Endosulfan	mg/kg	< 1×10^{-6} *	2×10^{-6}	1,1
Mineral oils	mg/kg	<10	12,65	1265

*- value under the scope of accredited methods

¹ The sum of ten polycyclic aromatic hydrocarbons: naphthalene, anthracene, phenanthrene, fluoranthene, benzo (a) anthracene, chrysene, benzo (a) pyrene, benzo (g, h, i) perylene, benzo (k) fluoranthene, indeno (1,2, 3-cd) pyrene.

²In case of remediation values taken suspicion of polychlorinated biphenyls congeners: PCB 28,52,101,118,138,153 and 180: in case of limit values taking the sum of the same congeners except PCB118

³ Under the "Drina" means the sum of aldrin, dieldrin and endrin.

⁴ Under HCH (hexachlorocyclohexane) means the sum of αHCH, βHCH, γHCH and δHCH

Results

Sampling point: BOR 19

ID number: 1903063019 (Depth 0 - 30 cm)

Parameter	Unit of measurement	The measured value	Limit value	Remediation value
Clay content	%	17,49	-	-
Organic matter content	%	4,40	-	-
TOC	%	2,55	-	-
PH in H ₂ O		8,1	-	-
Dry matter content	%	98,0	-	-
Water content	%	2,0	-	-
Cadmium (Cd)	mg/kg	< 0,4	0,6	9,4
Chrom (Cr)	mg/kg	105,8	85,0	322,9
Copper (Cu)	mg/kg	35,5	28,1	148,5
Nickel (Ni)	mg/kg	46,1	27,5	164,9
Lead (Pb)	mg/kg	19,9	71,9	448,3
Cobalt (Co)	mg/kg	7,3	6,9	183,9
Molybdenum (Mo)	mg/kg	< 1	3	200
Zinc (Zn)	mg/kg	69,5	109,1	560,9
Mercury (Hg)	mg/kg	<0,1	0,3	8,8
Arsenic (As)	mg/kg	8,8	23,8	45,1
Aromatic organic compounds				
Benzene	mg/kg	< 0,001	0,004	0,4
Ethylbenzene	mg/kg	< 0,001	0,01	22
Toluene	mg/kg	< 0,001	0,004	57,2
Xylene	mg/kg	< 0,001	0,04	11
Styrene	mg/kg	< 0,001	0,1	44
Polycyclic aromatic hydrocarbons (PAH) - total ¹	mg/kg	<0,02	1	40
Polychlorinated biphenyls (PCB) - total ²	mg/kg	< 0,004 *	0,009	0,4
Pesticides				



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DDT	mg/kg	< 0,002 *	0,004	1,8
DDD	mg/kg	< 0,002 *	0,004	1,8
DDE	mg/kg	< 0,002 *	0,004	1,8
Drini ³	mg/kg	< 0,001 *	0,002	1,8
Aldrin	mg/kg	< 1×10 ⁻⁵ *	2,6×10 ⁻⁵	-
Dieldrin	mg/kg	< 0,0001 *	0,0002	-
Endrin	mg/kg	< 1×10 ⁻⁶ *	1,8×10 ⁻⁵	-
HCH – compounds ⁴	mg/kg	<0,003	0,004	0,9
α -HCH	mg/kg	< 0,0006 *	0,001	-
β -HCH	mg/kg	< 0,002 *	0,002	-
γ -HCH	mg/kg	< 1×10 ⁻⁵ *	1×10 ⁻⁵	-
δ -HCH	mg/kg	< 0,003	-	-
Heptachlor	mg/kg	< 0,0001	0,0001	1,1
Heptachlor epoxide	mg/kg	< 1×10 ⁻⁸ *	4 ×10 ⁻⁸	1,1
Chlordane	mg/kg	< 1×10 ⁻⁶ *	6 ×10 ⁻⁶	1,1
Endosulfan	mg/kg	< 1×10 ⁻⁶ *	2×10 ⁻⁶	1,1
Mineral oils	mg/kg	<10	22	2200

*- value under the scope of accredited methods

¹ The sum of ten polycyclic aromatic hydrocarbons: naphthalene, anthracene, phenanthrene, fluoranthene, benzo (a) anthracene, chrysene, benzo (a) pyrene, benzo (g, h, i) perylene, benzo (k) fluoranthene, indeno (1,2, 3-cd) pyrene.

²In case of remediation values taken suspicion of polychlorinated biphenyls congeners: PCB 28,52,101,118,138,153 and 180: in case of limit values taking the sum of the same congeners except PCB118

³ Under the "Drina" means the sum of aldrin, dieldrin and endrin.

⁴ Under HCH (hexachlorocyclohexane) means the sum of αHCH, βHCH, γHCH and δHCH



Results

Sampling point: BOR 20

ID number: 1903063020 (Depth 0 - 30 cm)

Parameter	Unit of measurement	The measured value	Limit value	Remediation value
Clay content	%	19,99	-	-
Organic matter content	%	2,73	-	-
TOC	%	1,58	-	-
PH in H ₂ O		8,1	-	-
Dry matter content	%	98,2	-	-
Water content	%	1,8	-	-
Cadmium (Cd)	mg/kg	< 0,4	0,6	9,1
Chrom (Cr)	mg/kg	113,3	90,0	341,9
Copper (Cu)	mg/kg	30,9	28,6	151,1
Nickel (Ni)	mg/kg	45,9	30,0	179,9
Lead (Pb)	mg/kg	14,7	72,7	453,4
Cobalt (Co)	mg/kg	7,9	7,6	202,6
Molybdenum (Mo)	mg/kg	< 1	3	200
Zinc (Zn)	mg/kg	71,2	114,1	586,6
Mercury (Hg)	mg/kg	<0,1	0,3	9,0
Arsenic (As)	mg/kg	9,1	24,1	45,7
Aromatic organic compounds				
Benzene	mg/kg	< 0,001	0,003	0,3
Ethylbenzene	mg/kg	< 0,001	0,008	13,6
Toluene	mg/kg	< 0,001	0,003	35,5
Xylene	mg/kg	< 0,001	0,03	6,8
Styrene	mg/kg	< 0,001	0,08	27,3
Polycyclic aromatic hydrocarbons (PAH) - total ¹	mg/kg	<0,02	1	40
Polychlorinated biphenyls (PCB) - total ²	mg/kg	< 0,004 *	0,005	0,3
Pesticides				
DDT	mg/kg	< 0,002 *	0,003	1,1
DDD	mg/kg	< 0,002 *	0,003	1,1
DDE	mg/kg	< 0,002 *	0,003	1,1
Drini ³	mg/kg	< 0,001 *	0,001	1,1
Aldrin	mg/kg	< 1×10 ⁻⁵ *	1,6×10 ⁻⁵	-
Dieldrin	mg/kg	< 0,0001 *	0,0001	-
Endrin	mg/kg	< 1×10 ⁻⁶ *	1,1×10 ⁻⁵	-
HCH – compounds ⁴	mg/kg	<0,003	0,003	0,5
α -HCH	mg/kg	< 0,0006 *	0,0008	-
β -HCH	mg/kg	< 0,002 *	0,002	-
γ -HCH	mg/kg	< 1×10 ⁻⁵ *	1×10 ⁻⁵	-



δ -HCH	mg/kg	< 0,003	-	-
Heptachlor	mg/kg	< 0,0001	0,0001	1,1
Heptachlor epoxide	mg/kg	< 1×10 ⁻⁸ *	4 x10 ⁻⁸	1,1
Chlordane	mg/kg	< 1×10 ⁻⁶ *	6 x10 ⁻⁶	1,1
Endosulfan	mg/kg	< 1×10 ⁻⁶ *	2x10 ⁻⁶	1,1
Mineral oils	mg/kg	<10	13,65	1365

*- value under the scope of accredited methods

¹ The sum of ten polycyclic aromatic hydrocarbons: naphthalene, anthracene, phenanthrene, fluoranthene, benzo (a) anthracene, chrysene, benzo (a) pyrene, benzo (g, h, i) perylene, benzo (k) fluoranthene, indeno (1,2, 3-cd) pyrene.

²In case of remediation values taken suspicion of polychlorinated biphenyls congeners: PCB 28,52,101,118,138,153 and 180: in case of limit values taking the sum of the same congeners except PCB118

³ Under the "Drina" means the sum of aldrin, dieldrin and endrin.

⁴ Under HCH (hexachlorocyclohexane) means the sum of αHCH, βHCH, γHCH and δHCH

Results

Sampling point: BOR 21

ID number: 190306321 (Depth 0 - 30 cm)

Parameter	Unit of measurement	The measured value	Limit value	Remediation value
Clay content	%	17,49	-	-
Organic matter content	%	2,70	-	-
TOC	%	1,56	-	-
PH in H ₂ O		8,1	-	-
Dry matter content	%	98,3	-	-
Water content	%	1,7	-	-
Cadmium (Cd)	mg/kg	< 0,4	0,6	8,9
Chrom (Cr)	mg/kg	100,0	85,0	322,9
Copper (Cu)	mg/kg	29,7	27,1	143,1
Nickel (Ni)	mg/kg	50,6	27,5	164,9
Lead (Pb)	mg/kg	32,4	72,7	437,7
Cobalt (Co)	mg/kg	8,3	6,9	183,9
Molybdenum (Mo)	mg/kg	< 1	3	200
Zinc (Zn)	mg/kg	72,8	106,5	547,8
Mercury (Hg)	mg/kg	<0,1	0,3	8,7
Arsenic (As)	mg/kg	6,0	23,1	43,8
Aromatic organic compounds				
Benzene	mg/kg	< 0,001	0,003	0,3
Ethylbenzene	mg/kg	< 0,001	0,008	13,5
Toluene	mg/kg	< 0,001	0,003	35,1
Xylene	mg/kg	< 0,001	0,03	6,7
Styrene	mg/kg	< 0,001	0,08	27
Polycyclic aromatic hydrocarbons (PAH) - total ¹	mg/kg	<0,02	1	40
Polychlorinated biphenyls (PCB) - total ²	mg/kg	< 0,004 *	0,005	0,3



Pesticides				
DDT	mg/kg	< 0,002 *	0,003	1,1
DDD	mg/kg	< 0,002 *	0,003	1,1
DDE	mg/kg	< 0,002 *	0,003	1,1
Drini ³	mg/kg	< 0,001 *	0,001	1,1
Aldrin	mg/kg	< 1×10 ⁻⁵ *	1,6×10 ⁻⁵	-
Dieldrin	mg/kg	< 0,0001 *	0,0002	-
Endrin	mg/kg	< 1×10 ⁻⁶ *	1,8×10 ⁻⁵	-
HCH – compounds ⁴	mg/kg	<0,003	0,004	0,5
α -HCH	mg/kg	< 0,0006 *	0,001	-
β -HCH	mg/kg	< 0,002 *	0,002	-
γ -HCH	mg/kg	< 1×10 ⁻⁵ *	1×10 ⁻⁵	-
δ -HCH	mg/kg	< 0,003	-	-
Heptachlor	mg/kg	< 0,0001	0,0001	1,1
Heptachlor epoxide	mg/kg	< 1×10 ⁻⁸ *	4 ×10 ⁻⁸	1,1
Chlordane	mg/kg	< 1×10 ⁻⁶ *	6 ×10 ⁻⁶	1,1
Endosulfan	mg/kg	< 1×10 ⁻⁶ *	2×10 ⁻⁶	1,1
Mineral oils	mg/kg	<10	13,5	1350

*- value under the scope of accredited methods

¹ The sum of ten polycyclic aromatic hydrocarbons: naphthalene, anthracene, phenanthrene, fluoranthene, benzo (a) anthracene, chrysene, benzo (a) pyrene, benzo (g, h, i) perylene, benzo (k) fluoranthene, indeno (1,2, 3-cd) pyrene.

²In case of remediation values taken suspicion of polychlorinated biphenyls congeners: PCB 28,52,101,118,138,153 and 180: in case of limit values taking the sum of the same congeners except PCB118

³ Under the "Drina" means the sum of aldrin, dieldrin and endrin.

⁴ Under HCH (hexachlorocyclohexane) means the sum of αHCH, βHCH, γHCH and δHCH



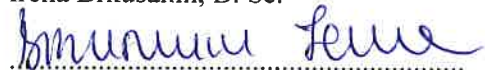
Measurement uncertainty and limit of quantification

Parameter	Measurement uncertainty (%)	Limit of quantification
Clay content	± 9,6	-
Content organic matter and TOC	± 21,3	0,1 %
Dry matter content	± 23,5	0,01%
pH (H ₂ O)	± 12,0	-
Lead	± 1,81	8 mg/kg
Cadmium	± 5,53	0,3 mg/kg
Nickel	± 0,81	6 mg/kg
Chrom	± 3,37	5 mg/kg
Copper	± 1,07	6 mg/kg
Zinc	± 1,61	5 mg/kg
Arsenic	± 5,65	1 mg/kg
Mercury	± 10,09	0,1 mg/kg
Cobalt	± 12,7	1 mg/kg
Molybdenum	± 13,5	1 mg/kg
Polycyclic aromatic hydrocarbons (PAH)	± 4,24	0,02 mg/kg
Polychlorinated biphenyls (PCB)	± 1,92	0,01 mg/kg
DDT	± 15,08	3 µg/kg
DDD	± 22,65	3 µg/kg
DDE	± 12,15	3 µg/kg
Aldrin	± 7,25	3 µg/kg
Dieldrin	± 4,57	3 µg/kg
Endrin	± 4,72	3 µg/kg
α-HCH	± 6,29	3 µg/kg
β-HCH	± 5,63	3 µg/kg
γ-HCH	± 5,34	3 µg/kg
δ-HCH	± 5,72	3 µg/kg
Heptachlor	± 5,85	3 µg/kg
Heptachlor epoxide	± 0,52	3 µg/kg
trans - Chlordane	± 1,04	3 µg/kg
cis - Chlordane	± 12,09	3 µg/kg
α Endosulfan	± 3,87	3 µg/kg
β Endosulfan	± 3,57	3 µg/kg
Mineral oils	± 6,34	10 mg/kg
Benzene	± 1,27	1 µg/kg
Toluene	± 2,61	1 µg/kg
Ethylbenzene	± 6,70	1 µg/kg
m, p - Xylene	± 7,92	1 µg/kg
o - Xylene	± 8,76	1 µg/kg
Styrene	± 5,42	1 µg/kg



Analysts:

Irena Brkusanin, B. Sc.

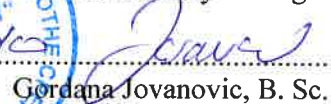


Technical Manager


Dr. Miodrag Pergal



Laboratory Manager


Gordana Jovanovic, B. Sc.

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Name: Vinci Terna Construction JV doo Belgrade – Old town

Adress: Gospodar Jovanova 5, 11000 Belgrade

Reference documents used in the development of the soil sampling plan, as well as in the sampling itself, are:

ISO 10381-1:2002 Soil quality – Sampling – Part 1: Guidance on the design of sampling programs; **ISO 10381-2:2002** Soil quality – Sampling – Part 2: Guidance on sampling techniques; **ISO 10381-3:2001** Soil quality – Sampling – Part 3: Guidance on safety; **ISO 10381-4:2003** Soil quality – Sampling – Part 4: Guidance on the procedure for investigation of natural, near-natural and cultivated sites; ; **ISO 10381-5:2005** Soil quality – Sampling – Part 5: Guidance on the procedure for the investigation of urban and industrial sites with regard to soil contamination; **ISO 10381-6:2009** Soil quality – Sampling – Part 6: Guidance on collection, handling and storage of soil under aerobic conditions for the assessment of microbiological processes, biomass and diversity in the laboratory; **FHL UP.5.4.2.61** Instructions for land sampling; **FHL UP 5.7.0.1** Instructions for receiving samples; **FHL UP 5.8.0.1** Instructions for handling, storing and storing samples

Location of sampling: Airport "Nikola Tesla", Belgrade



PLAN AND PROGRAM OF SOIL SAMPLING

Label	GPS coordinates	Label	GPS coordinates
BOR 1	N 44° 48' 19.3" E 20° 18' 39.5"	BOR 12	N 44° 48' 33.3" E 20° 18' 58.4"
BOR 2	N 44° 48' 25.7" E 20° 18' 31.4"	BOR 13	N 44° 48' 34.2" E 20° 19' 08.4"
BOR 3	N 44° 48' 27.7" E 20° 18' 45.2"	BOR 14	N 44° 48' 35.5" E 20° 19' 01.0"
BOR 4	N 44° 48' 32.5" E 20° 18' 52.5"	BOR 15	N 44° 48' 38.6" E 20° 18' 58.5"
BOR 5	N 44° 48' 35.1" E 20° 18' 46.7"	BOR 16	N 44° 48' 39.1" E 20° 18' 56.7"
BOR 6	N 44° 48' 36.2" E 20° 18' 54.5"	BOR 17	N 44° 48' 39.6" E 20° 18' 56.8"
BOR 7	N 44° 48' 36.8" E 20° 18' 56.1"	BOR 18	N 44° 48' 39.8" E 20° 18' 57.5"
BOR 8	N 44° 48' 36.0" E 20° 18' 55.9"	BOR 19	N 44° 48' 39.0" E 20° 19' 00.3"
BOR 9	N 44° 48' 36.0" E 20° 18' 56.9"	BOR 20	N 44° 48' 37.7" E 20° 19' 01.7"
BOR 10	N 44° 48' 34.9" E 20° 18' 56.9"	BOR 21	N 44° 48' 37.9" E 20° 19' 04.2"
BOR 11	N 44° 48' 34.5" E 20° 18' 58.4"		

Objective of land sampling

- | | |
|--|--|
| ☒ identification of harmful substances | ☐ land suitability assessment |
| ☒ studying the effects of atmospheric pollutants | ☒ assessment of the effects of direct soil contamination |
| ☐ assessment of the effects of accumulation and release of harmful substances to other land | ☐ identification and quantification of products from industrial processes and accidents |
| ☐ assessment of the impact of waste disposal | |

Method of sampling

- | | |
|---|--|
| ☒ experiential sampling | ☒ free selection of random samples |
| ☐ stratified sampling | ☐ systematic sampling |
| ☐ sampling by network or line | ☐ classified sampling by sets |
| ☐ adaptive group sampling | ☒ composite sampling |

Packaging for sampling

- | | |
|--|---|
| ☒ plastic wrapping | ☒ glass jar with teflon lid |
| | ☒ headspace vials with a teflon lid |

Conservation of samples

- | | |
|--|--|
| ☒ It is necessary to conserve the samples and transport them in the fridge to the laboratory | ☐ It is not necessary to conserve samples |
|--|--|

Created
by:

Stefan Jelic

Date:

4.3.2019.

Approved:

M. Jelic





ELAB doo
Mira Popare 49
11000 Beograd



UVERENJE O ETALONIRANJU

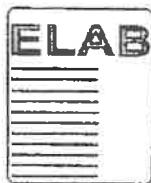
BROJ: 120-2019

Naziv merila	Elektromehanička vaga
Proizvođač merila	Kern
Proizvodna oznaka merila	ABJ 120-4M
Identifikacijska oznaka merila	WB0740126
Datum etaloniranja merila	8.2.2019.
Korisnik merila	Zaštita na radu i zaštita životne sredine „Beograd“ d.o.o. Deskaševa 7, 11000 Beograd

Rukovodilac Laboratorije za etaloniranje

Ostojić Dragan dipl.el.inž.





3.0 Uslovi okoline

Vaga se nalazi u laboratoriji. Tokom etaloniranja izmerena temperatura od 21,4 °C do 21,2 °C. Uslovi okoline su bili zadovoljavajući (bez potresa, strujanja vazduha ili elektromagnetnih smetnji).

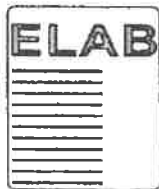
4.0 Rezultat etaloniranja

Etaloniranjem vage dobijeni su sledeći rezultati:

TEST A Ponovljivost	
Broj merenja	Rezultat merenja
1	0,00000 g
2	0,00000 g
3	0,00000 g
4	0,00000 g
5	0,00000 g
6	0,00000 g
Ponovljivost s = 0,00005 g	

Test B Ekscentričnost	
Broj merenja	Rezultat merenja
1	0,00000 g
2	0,00000 g
3	0,00000 g
4	0,00000 g
5	0,00000 g
Maksimalno odstupanje 0,00000 g	

TEST C Greška merenja				
Broj merenja	Nazivna masa	Odstupanje	Faktor obuhvata k	Proširena standardna merna nesigurnost
1	0 g	0,00000 g	2,26	0,00015 g
2	1 g	-1,00000 g	2,24	0,00015 g
3	10 g	-10,00000 g	2,16	0,00016 g
4	25 g	-25,00000 g	2,10	0,00018 g
5	50 g	-50,00000 g	2,06	0,00019 g
6	100 g	-100,00000 g		



Dodatak uverenju o etaloniranju broj: 120-2019

1.0 Obrazac za izračunavanje greške merenja i merne nesigurnosti

Na osnovu diskretnih vrednosti dobijenih etaloniranjem, aproksimacijom pravom kroz nulu, dobijaju se sledeće funkcije:

Greška merenja vage:

$$E_{appr}(R) = 0 \times R$$

Proširena standardna merna nesigurnost vage:

$$U(E_{appr}) = 0,000002 \times R$$

Gde je:

R = Očitavanje u gramima; odnosno svako pokazivanje dobijeno nakon etaloniranja

$E_{appr}(R)$ = Približna greška vage u gramima pri očitavanju R

$U(E_{appr})$ = Proširena standardna merna nesigurnost rezultata za datu približnu grešku vage u gramima

Pomoću ovih formula se mogu računati greška merenja i proširena merna nesigurnost za tačke koje nisu obuhvaćene etaloniranjem, a u uslovima etaloniranja.

2.0 Standardna nesigurnost rezultata vaganja u upotrebi

Korisnik vage treba biti svestan činjenice da je pri normalnoj upotrebi etalonirane vage situacija različita od one pri etaloniranju.

Uzimajući u obzir:

- nesigurnost zbog promene temperature okoline na mestu gde se vaga nalazi nakon etaloniranja
- nesigurnost zbog promena vage od vremena podešavanja
- nesigurnost zbog uravnoteženja tare
- nesigurnost zbog položaja težišta tereta izvan središta.
- nesigurnost koja uzima u obzir promenu gustine vazduha na mestu gde se vaga nalazi nakon etaloniranja

Proširenu merna nesigurnost u koju nije uključena greška vage dobijamo iz:

**Agilent GC/MS Preventive Maintenance Checklist**

Agilent Preventive Maintenance provides factory recommended service for your analytical systems to ensure reliable operation and the accuracy of your results. Delivered by highly-trained and certified service engineers using genuine Agilent parts and supplies, Agilent Preventive Maintenance provides everything you need to reduce unplanned downtime and keep your systems operating at their peak.

Select the appropriate PM to be done and then perform the checklist under that section.

- ☒ Interim Preventive Maintenance 6 months
☒ Major Preventive Maintenance Yearly

This checklist covers the following model(s):

Type	Model
SQ	5973 Series MSD
SQ	5975 Series MSD
SQ	5977 Series MSD
TQ	7000 Series MS/MS
TQ	7010 Series MS/MS
QTOF	7200 Series QTOF
QTOF	7250 Series QTOF

Definition of the Task/Recommended items within the document.

Task		Recommended			
Yes	No	Interim	Major	As needed	
☒	☐	☐	☐	☐	Yes selected means that the task was done or the part was required.
☐	☒	☐	☐	☐	No selected means that the task was not done or the part was required.
☐	☐	☒	☐	☐	Means that this task is recommended to be done at 6-month intervals.
☐	☐	☐	☒	☐	Means that this task is recommended to be done yearly ; if the customer would like a service to be done at the 6-month interval then the service could be purchased.
☐	☐	☐	☐	☒	As needed means that the task was done or the part was used as needed. Could be two type of filters could be used and this was the one which was selected.

For more information about Agilent Technologies services please visit our web site using the following URL
<http://www.chem.agilent.com/en-us/products/services/pages/default.aspx>

**Agilent GC/MS Preventive Maintenance Checklist****System Information**

System Name and ID	System Site and Location
7890A-5975C / 1888 MS	

System Components

☐ Check this box if an instrument configuration report is attached instead of completing the table.

List system component product numbers	List the serial numbers of each component
1. G3440A	1. CW 10849142
2. G2913A	2. CW 84753970
3. G3170A	3. US 83111386
4. G1888	4. IT 00844001
5.	5.
6.	6.
7.	7.
8.	8.
9.	9.
10.	10.

Preparation

- ☒ Discuss any specific issues with the customer prior to starting.
- ☒ Review the instrument logbook.
- ☒ Save instrument control settings before starting the procedure.
- ☒ Perform general inspection of system for cleanliness.
- ☒ Check for proper installation of safety-related parts, assemblies, sensors etc.
- ☒ Check for required firmware updates and verify with customers if they would like it installed.



Agilent GC/MS Preventive Maintenance Checklist

Parts – Included and as needed as part of the preventive maintenance

Common MS Maintenance Supplies

Parts Required						
Yes/No	Interim/Major/As needed				Description	Part number
☒	☐	☐	☐	☒	Abrasive paper, 30 µm	6061-6896
☒	☐	☐	☐	☒	Alumina powder	393706201
☒	☒	☐	☐	☒	Cloths, clean (package of 15)	05980-60051
☐	☒	☐	☐	☒	Cloths, cleaning (package of 300)	9310-4828
☒	☒	☐	☐	☒	Cotton swabs (package of 100)	5080-5400
☐	☒	☐	☐	☒	Gloves, clean, large	8650-0030
☒	☐	☐	☐	☒	Gloves, clean, small	8650-0029
☒	☐	☐	☐	☒	Grease, Aplezon L, high vacuum	6040-0289

Common MS Filters and Seals – 5973/5975/5977/7000/7010/7200/7250 Series

					Supplies	
Yes/No	Interim/Major/As needed				Description	Part number
☐	☒	☐	☒	☒	Helium gas filter – if required	RMSH-2
☐	☒	☐	☒	☒	Nitrogen gas filter – if required	RMSN-2
☐	☒	☐	☒	☒	Big Universal Trap, 1/8i ftgs. Hydrogen – if required	RMSHY-2
☐	☒	☐	☒	☒	Gas Clean Carrier Gas Kit for 7890 for Nitrogen or Helium; Bracket, Mount, and Filter – if required	CP17988
☐	☒	☐	☒	☒	Gas Clean Filter kit GC/MS 1/8 in (complete replacement kit) – if required	CP17974
☐	☒	☐	☒	☒	Gas Clean GS/MS Filter – if required	CP17973
☐	☒	☐	☒	☒	Chemical Ionization Gas Purifier (CI systems) – if required	5190-9071
☒	☐	☒	☒	☐	Foreline Pump Oil, Inland 45	6040-0834

MS Maintenance Supplies for 5973/5975/5977

Yes/No	☒	☐					Supplies	
Yes/No	Interim/Major/As needed				Description	Part number		
☐	☒	☐	☒	☒	Diffusion pump fluid (Diffusion Pump Models)	6040-0809	Qty 2	
☐	☒	☐	☒	☒	IDP-3 Tip Seal Replacement Kit (IDP-3 Dry Pump Models)	G7077-67018		
☐	☒	☐	☒	☒	DS42 Oil Mist Eliminator 3/4G & 3/8	SR03706556		
☐	☒	☐	☒	☒	Exhaust oil mist trap (thread) Edwards/Pfeiffer	G1099-80039		

MS Maintenance Supplies for 7000/7010

Yes/No	☐	☒					Supplies	
Yes/No	Interim/Major/As needed				Description	Part number		
☐	☐	☐	☒	☒	Nitrogen gas filter	RMSN-2		
☐	☐	☐	☒	☒	Oil Mist Filter RV5	G6600-80043		



Agilent GC/MS Preventive Maintenance Checklist

Parts – Needs be purchased if found defective or worn out

Common MSD Maintenance Supplies 5973/5975/5977/7000/7010/7200/7250

					Common Recommended Consumables Parts	
Yes/No	Interim/Major/As needed	Description			Part number	
☐	☒	☐	☐	☒	El High Temperature Filaments	G7005-60061 Qty 2
☐	☒	☐	☐	☒	HES El Filaments	G7002-60001
☐	☒	☐	☐	☒	LE-El Filaments	G3850-60021
☐	☒	☐	☐	☒	CI High Temperature Filament – all MSDs	G7005-60072
☐	☒	☐	☐	☒	PFTBA GC/MS Tuning Standard calibrant	05971-60571
☐	☒	☐	☐	☒	PFTD calibrant, 1 ml	8500-8510
☐	☒	☐	☐	☒	PFET, IRM calibrant for GC QTOF 0.5 ml	5190-0531

MS Maintenance Supplies for 5973/5975/5977

					Supplies	
Yes/No	Interim/Major/As needed	Description			Part number	
☐	☒	☐	☐	☒	CI Interface tip seal (tip and spring combo)	G1999-60412
☐	☒	☐	☐	☒	CI Interface tip seal (tip only)	G3870-20542
☐	☒	☐	☐	☒	CI Interface tip seal spring (spring only)	G1999-20023
☐	☒	☐	☐	☒	Repeller insulator	G1099-20133 Qty 2
☐	☒	☐	☐	☒	Lens insulator/holder (HES)	G7002-20074
☐	☒	☐	☐	☒	Ring heater/sensor assembly (HES)	G7002-60043
☐	☒	☐	☐	☒	Ceramic insulator for Extractor (HES)	G7002-20064
☐	☒	☐	☐	☒	Transfer-Line Tip Cap, Threaded	G3870-20547
☐	☒	☐	☐	☒	Transfer-Line Tip Base, Threaded	G3870-20548

MS Maintenance Supplies for 7000/7010

					Supplies	
Yes/No	Interim/Major/As needed	Description			Part number	
☐	☐	☐	☐	☒	CI Interface tip seal - 7000	G1999-60412
☐	☐	☐	☐	☒	CI Interface tip seal - 7010	G7002-60412
☐	☐	☐	☐	☒	CI Interface tip seal (tip only)	G3870-20542
☐	☐	☐	☐	☒	CI Interface tip seal spring (spring only)	G1999-20023
☐	☐	☐	☐	☒	Repeller insulator - 7000	G1099-20133 Qty 2
☐	☐	☐	☐	☒	Lens insulator/holder (HES)	G7002-20074
☐	☐	☐	☐	☒	Ring heater/sensor assembly (HES)	G7002-60043
☐	☐	☐	☐	☒	Ceramic insulator for Extractor (HES)	G7002-20064
☐	☐	☐	☐	☒	Transfer-Line Tip Cap, Threaded	G3870-20547
☐	☐	☐	☐	☒	Transfer-Line Tip Base, Threaded	G3870-20548

**Agilent GC/MS Preventive Maintenance Checklist****Preventive Maintenance Checklist:**

Yes/No	Interim/Major	Description
☒ ☐	☒ ☒	Perform general inspection of system for cleanliness.
☒ ☐	☒ ☒	Discuss any problems the customer is having with the instrument
☒ ☐	☒ ☒	Review customer maintenance records and exclude maintenance on recently serviced items.
☒ ☐	☒ ☒	Review the most recent autotune report. This will give a starting point for evaluating spectral peaks, baseline noise, peak shape, mass assignments and resolution.

			GCMS
Yes/No	Interim/Major	Description	
☒ ☐	☒ ☒	Record instrument model no.	G3170A
☒ ☐	☒ ☒	Record instrument serial no.	VS83111386
☒ ☐	☒ ☒	Record Rough Vacuum.	5A
☒ ☐	☒ ☒	Record Manifold Vacuum.	N/A
☒ ☐	☒ ☒	Type of Column installed.	HP5 MS

			System Checks
Yes/No	Interim/Major	Description	
☒ ☐	☒ ☒	Check manually that you have calibration peaks.	
☒ ☐	☒ ☒	Vent the instrument.	
☒ ☐	☒ ☒	Inspect vacuum hoses, pump exhaust tubing and power cords for excessive wear.	
☒ ☐	☒ ☒	Visually inspect the calibrant levels – PFTBA, PFDTD (if appl), IRM (if appl). Refill if necessary.	
☒ ☐	☒ ☒	Look for any obvious external damage or problems.	
☒ ☐	☒ ☒	Clean air intake(s). Cosmetic cover(s) may need to be removed.	
☒ ☐	☒ ☒	Verify system line voltage meets instrument specifications:	Yes ☒ No ☐

Yes/No	☒ ☐	Wet Mechanical vacuum pumps
Yes/No	Interim/Major	Description
☒ ☐	☒ ☒	Check for evidence of oil leakage. Check pump gasket for leakage.
☒ ☐	☒ ☒	Drain and replace mechanical pump oil.
☐ ☒	☒ ☒	Replace Oil Mist Filter if applicable.
☐ ☒	☒ ☒	Discuss with customer the need for more frequent oil changes if the oil is dirty.
☐ ☒	☒ ☒	Demonstrate ballast, if requested.
☒ ☐	☒ ☒	Anti-suckback test.

Yes/No	☐ ☒	Dry Mechanical vacuum pumps - Diaphragm
Yes/No	Interim/Major	Description
☐ ☐	☒ ☒	Check for evidence of poor vacuum - Turbo Power Demand, poor manifold vacuum, etc.
☐ ☐	☒ ☒	If vacuum is poor, then replace the diaphragm pump.
☐ ☐	☒ ☒	Anti-suckback test.

**Agilent GC/MS Preventive Maintenance Checklist****Service Review**

- ☒ Attach available reports/printouts of all tests to this documentation.
- ☒ Record the PM Service activity in the customer's instrument records/logbook.
- ☒ Update/reset instrument maintenance counters as appropriate.
- ☒ Affix the PM sticker to the system or instrument logbook based on the customer's request.
- ☒ Complete the Service Review Comments section below if there are additional comments.
- ☒ Review the service and any test results with the customer.
- ☐ If the Instrument firmware was updated, record the details of the change in the Service Engineer's Comments box below or if necessary, in the customer's IQ records.

Agilent Test Results Table:

Test Description	Expected Test Result	Actual Test Result
TUNE	Pass	Pass
N/A JWP		

Agilent Parts List Table:☐ Section NOT Applicable

Part Description	Part Number	Product/Model # where used	Quantity Consumed
PUMP OIL	6040-0834	MS	1
SEPTA	5183-4757	GC	1150
LINER	5190-3163	GC	115
N/A JWP			

Report Summary

Instrument Model 4100 MP-AES
Instrument Product Number G8006A
Instrument Serial Number AU12510345
Software Version 1.4.0.4317
Firmware Version 1.220
Tested By Mladen Perisic
Test Completed On 4/5/2018 10:37:44 AM

Result Summary

Detector Read Noise Test Pass
Dark Current Calibration Test Pass
Wavelength Accuracy Test Pass
Stray Light Test Pass
Short Term Noise Test Pass
Estimated DL Test Pass
Detection Limit Test Pass

Detector Read Noise Test Pass

	Specification	Result	Pass/Fail
Read Noise	0 < Stdev < 25	9	Pass

Dark Current Calibration Test Pass

	Specification	Result	Pass/Fail
Dark Current Offset	0 < Offset < 10000	4436	Pass
Dark Current Slope	0 < Slope < 300	62.0	Pass

Mladen Perisic
05. APRIL 2018

Stray Light Test**Pass**

	Specification	Result	Pass/Fail
Stray Light Counts	0 < Delta < 1500	515	Pass

Short Term Noise Test**Pass**

	Specification (%RSD)	Result (%RSD)	Pass/Fail
Wavelength 407.771	0 < RSD < 15%	3%	Pass

Estimated DL Test**Pass**

Element Wavelength	Specification	DL	Pass/Fail
Mn (257.610 nm)	<= 6.5 ppb	1.12	Pass
Sr (407.771 nm)	<= 1.3 ppb	0.02	Pass
Ba (614.171 nm)	<= 1.95 ppb	0.11	Pass

Detection Limit Test**Pass**

Element Wavelength	Specification	DL	Background	Slope	RSD
Ba (614.171 nm)	<= 1.95 ppb	0.55	8.35	28.15	1.64
Mn (257.610 nm)	<= 6.50 ppb	5.45	90.70	7.22	1.61

Instrument Configuration

Component	Serial Number	Hardware Version	Firmware Version
Control Board	0503 1150 00100S	0.03	1.220
Detector	0101 1152 00206S	0.03	N/A
HVPS	10045011200065	0.00	0.1000
Gas Box	0301 1210 00536S	0.01	0.2000
Filter Motor	0201 1213 00877S	0.00	0.1001
Viewing Motor	0201 1229 00136S	0.04	0.1001
Pump	0201 1213 00653S	0.00	0.1000
Oxygen Sensor	0302 1245 00113S	0.00	0.1001
FPGA Version	0.144		

Mladen Petrov
05. APRIL 2013